PAGE 1/81 * RCVD AT 9/1/2007 2:48:01 PM [Eastern Daylight Time] * 5/12027-5/10 * DNIS:27:31091 * CSID:613 230 5459 * DURATION (mm-55):24-06

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7 ... C. 1

September 11, 2007

From:

Paul S. Sharpe

Telephone:

(613) 780-8676

Direct Fax:

(613) 230-6706

E-Mail:

psharpe@ogilvyrenault.com

To	Company - City	Phone	Facsimile
ART UNIT 1712 Attention:	United States Patent and Trademark Office		571-273-1091
Examiner Peng			

Message

Please see attached.

Re: United States Patent Application No. 10/815,826

Filed: April 2, 2004 Title: Drilling Fluid Inventor: Len Baltoiu Our Ref: 9-15652-2US

Darricters & Solicitors, Patent Agents & Trade-courk Agents

Suite 1500 45 O'Connor Street Ottawa, Ontano KIP 1A4 Cooolo

Telophone (613) 780-8661 Pax (613) 230-5450

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09/11/2007 14:46 FAX 613 230 5459

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File No. 9-15652-2US

Date: September 11, 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Len Baltoin

Filed:

April 2, 2004

Serial No.:

10/815,826

Title:

DRILLING FLUID

Examiner;

Philip C. Tucker

Group Art Unit:

1712

Mail Stop Amendment

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA
22313-1450 U.S.A.

Sir:

In response to Examiner Peng's telephone request of September 10, 2007, submitted herewith is the MS-DS information which was inadvertently omitted from our response dated June 7, 2007.

RUM 1

etfully submitted.

Paul Sharpe Registration No. 39,493 Agent for Applicant

PSS/sr

Address:

Ogilvy Renault, LLP

1981 McGill College Avenue

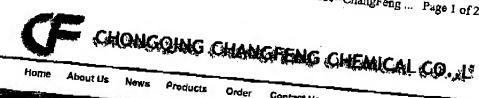
Suite 1500 Montreal, Quebec

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E-MAIL:info@Chanyfongchem.com

PRODUCTS

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(seauch, ;

Polyanionic Cellulose (PAC) Specification Formula: $(C_0H_7O_2(OH)_0$ -fi (OCH $_2$ COONa) fi] x

PAC-HV (High-viacosity) Appearance Substituting degree White or light yello-Apparent viscosity in water, mPa.s Apparent viscosity in saturated brine, 0.85-1.10 3.79/ e.sqm Water, 96 ≥60 (3.7g/ ρН < 0

Contact Us

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Mud generating capacity 6.0-8.0 ≥400m 3, ¦È 600 ≥12mPa.s (148.€

PACILY (Low-viscosity) E 300 ≥12mPa.s (148.s Appearence Substitution degree

White or light yellow p Apparent viscusity in water, mPala 0.85-1.10 Apperent viscosity in seturated brine. ≤ 6.0 (2.286 g/l Apparent viscosity in 4% brine, mPa.s ≤ 6.0 (2.857 g/) Water % ≤ 6.0 (4.286 g/) DΗ Filtration loss, mi <10 Characteristic 6.0-6,6

Polyanionic cellulose is white or yellowish powder that is odoriess and ≤ 13.0 (3.6g/l) soluble in water to furm thick liquid. It has good heat-stabilly and high sail. It is not fermented. Polyantonic cellulose (PAC) is a sodium carbo cellulose with high uniformity, high degree of substitution and high qua

The product is used as an additive for drilling mud, especially used in salt-rich sera or under the sea.

Packing

The inner layer is polyethylene film bag. The outer layer is plastic wow composite plastic woven beg. Net weight is 25kg per bag.

http://www.changfongchem.com/producter1 2.

S:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06	Vilght 7 ime] * 5VR.USPTO.EFXRF-2NO * DNI	e q wajsea] W.d 10:37:7 2007/11/6 17 Q ose—ChangFong Page 2 of 2	PAGE 4/81 * RCV
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Search for term:	- Value Value of the Value of t	
Farmer and a second		Oilfield or
Search by discipline:		Oilfield Gl
→ More sparch options	polyanionic cellulose	
Terms beginning with:	1. n. [Drilling Fluids]	
# A B C D E F G H I J K L M N O P Q R S .T U V W X Y Z AIJ	A cellulose derivative similar in structure, properties and usage in carboxymethylcellulose. PAC is considered to be a premium proceeding of carboxymethyl substitution and contains less residual in contains less residual in the contains and contains less residual in the contains and contains less residual in the contains and contains	
Resource Links	See: palcium carbonate, parthonymethyleelluloss, PAC, potassium myd	•
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Haevy Oil .T ,Ga	PAC	-		
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Brand Name	Generic Name/Composition	Primary Function	Manufacturer/Supplier
18A12	Liquid PHPA	Flocations	Aligid Colloids
PR7 Water Solutile Pak	Myagos Powder	harreristos	
Abandonyak	Midditificantional pooker fluid inhibitor (weller soluble)	Controller brighter	Canamora Linked
Abandorpak (30)	Self-dispersing, multi-fungs packer fluid inhib (water soluble)	comein inhibitor	ICTE .
ABI 28 Markem Phip	Shed boniones	LOSI Circulation Muliping)	ICTO
Bi High Yald Benionia	Chaulked wyoming benion(ie	Viscosition	Milignum Technologies Ltd.
ARI Premirim GAI	Wyoming bentonite	Viscoillers	Mildraum Yectstelled on Ltd.
ABI Uninceted Col	Signored grittmyw beleguigu	Viscosifiera	Milerum Technologies Lini
Actionard	Shale & day inhibitor for Aphron ICC		Millanium Yecknologies Lmi.
Activitied Certion	Charposi	Strate Constant Inflations Surface Active Agents	APCIBA Specially Chemicale
Activator i	Thormal plabilizer for ADHPLON ICE		AI .
Activator II	Thermal explication APPEAN ICS	Polymen Statements	M-i RwanniFederal
Acepta	Of mud HTMP filtrate reducer	Polymer Stabilizers	Mri Bereco/Pederal
AK-70	- GAEOGUE	Ok eta Beducara	Ramid
Aktatio-E	Orcyathialad alinyl phenol liquid	Filtraty Reducers	\$erold
Alactio-B	Mend uxystinyi8ted phenois	Rithiage	Barraid
Alcomer 110 RD	High mol witanismic disponsiblepolydarylamide	Surface Aethe Agents	Darold
Aloomer 180L/Od	Figure 15/MV amount polyacrylamids	Flocoularia	All / CIBA specialty chemicals
Alcomer 242	AMPS - polyprovide copolymer	Chale Control Inhibitory	AUCIDA Operatry Characets
Alabarrar 274	Larged at source School Control States and School	Filialy Moulypers	AI/CIBA Specially Chemicals
Alcomer S38 RD	High Mol W. Antonic polystarylamids	Viscoelfiers	APOIDA Specialty Chemicau
Alegmer CORD	LMW arronic gregoración PHPA	Factadyda	All / CIBA spenistly members
Alcomer 72t	Limid LANA palana sanjara-based polymer	Shale Control Intribitors	ALCIBA Specialty Chemicals
Alcomer 74	the Post of the Control of the Contr	Transportants	ALICIBA Specially Chardrals
Alcomer 74L	Muulited symflic polymer, carglum stable	Thinners, Cuspersone	AVCIBA Specially Chamikala
Algomer IIORD	Liquid anionie scrylie do-polymer, pardum stable	Tirraners, Dispersants	AI/CIBA Specially Chemicals
Alducida G	HMY yalkatiu dispegalitie PHPA Chata-shybyda soluton	Shale Control Inhibitory	AIACIBA Specialty Chemicals
Alkatigo A/E5 D	124 Mary Styley Opt (Mich	jandericless	Ramid
Alkalioc EA-73	Diseaselide Frich low viscosity anionic	Shale Control Inhibitory	AlkSynerthem
Also Roo EAB	PHPA emulaton	3046 Control Intestiture	Al/Synerchem
Allegam A-1103 D	Outry wed AMPS	Elizate Control Inhabitors	AL/3ymarchem
Altopom A-17635	Dispersible PHPA HMW antenio	Physoderila	All/Synamhern
AP-808m A-25D	Dispursable PHPA HIMW BOIDING	Vienneiligra	Byrnersham
Alagem C-1903	Disparcible PHDA low visionity shipnic	Clucculents	All / Swherthorn
Alkapam CP787	Catonic	Amovionis	Ali / Synarchan
AMERICAN I	PHPA optionic Hapty	Fluxusianis .	Alf/Synancham

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Alleanam N 1003 D	Dispersible PHPA MMW port-lunt:	Flosculante	All / Eynareharn
Alkegem N-11095	Pelyacrytamide	Shale Control Inhibitors	AI
Alkapam 5	MOIVSCIVE/DIAMES	Piocoulartia	Al / Dynamhom
All Temp	All lemperature polyment delicocutent	Thirmon Dispersents	Paker Hughes Inled
Alphadrill	Ligurd shale elecater	Strate Control (nhibitors	Consmire United
Airior	inhibitivo aluminum complex	Chale Coulmi Inhibitive	Baker Rughes Integ
Aluminum Starreto	Aluminum significité powder	defoemer	All
Artunoridi	Arrana based liquid shale initialior (winterfred)	Shale Control Inhinitors	IFTC
American His IIIA	Oxygen scavenger	- curcatos inhibitor	All
Ammonium Sulphale	Ammontum suiphale	Shale Confird Inhibitors	Al
Aphron ICS	Water-base reservoir drilling fluid	Bysicia	MH Eweco/Federal
Acue Fac LV	Polyenania seltulos e	Filmia Radinara	Bn-Cham Subby Uff
Agua Pac Regular	Howauloui dice miced	Filiaio Reducers	Dri-Driem Supply Ltd.
Aque-Od	Cloud-point polygiyeal	Shala Confrol Inhibitors	Baker Hughes Integ
Agua-Onii System	ілітонне дікон разво општа буд	Зуучэгтэ	Baker Hughes Inteq
Aguapel	Treated postum monimentarità	Filipir Red introduction	R-rold
Aguagel Gold	Treated applican monthsuffer the	Filtrata Reducers/viscos/flor	Beroid
Agusiga Gold Gool	Trouted codum mantmeritenite	Vipravgiliane	- Remif
Админиро	Non-loade bil figg differential allutatur unavertativa	Laibricanig	Seiver Hughes Inteq
Aguapae LV	Potygnionic rollishen	Shale Central Inhibitors	Britchem Supply Url
Aguapaic Regular	Polyanionic deflutions	Viscosifiera	Dri-Onem Bupply Ud
Agua-Otar D	Carborymothyl elarch	Filmia Reducers	Canamana/Holimes
Asphaso D	Suppriated organic blends	Shale Consol Inhibitors	MH 3waco/Tederal
Asphasd Burpreme	Surional ad aspinalt	Production inhouse	St. Buaco Federal
Allaculate	CORY WASCOSKIBLIOU BEILD MENGLE SYSTEM	YI) COSTI BITS	All
D 1007	Granutar Biocide	bactericides	lene
B 1008	Clayed, non-fluenting blocking	bacsericides	ICTÓ
B.A.S.E. Mud	Water based must for bitumon & hoovy oil water	Systems	Mangrie Fluide
Barabiok	Powdorod hydrocarbon festr	Filtrate Respices	Deroid
Berabul	Megnedium Didde pH ⊊to hill±ter	Aliedially pH control	Barnd
Baracarb	Şizad calcium carbonate	Lust Charletan Meleral	Barrid
Barnesi.	High charge callanta polymer	Ehnia Chalmi Ishihaore	Bornid
Barachok	Celtulopic Polymor	Lingle vecopers	Beroid
Bornotive	Polar activator for use in 100% oil systems	Surface Arthy Agents	Bernid
Berg-Daltam HP	inglypropylene glycol	ula/uerrier	čargid 💮
Bore-Defeam I	Burlece solive dataomer	dalanmer	Bereid

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Borg-Deinem W300	Surface active defendant	defeamer	Blarced
BarreckfiHN	Nyr: <u>du reging p</u> iù aclulde dispeli oo ayatam Filming amina	Dynlerns	Derok)
Borniky	Filming amine	corresion inhibitor	Barold
Barañoc	Acrylamide polymeric hydrolife powder	l'ioccutents	Deroid
Botatobur	Sortum AO Butchmala	Framing Agenis	Barnid
Baribs	Micuified Bodium polyphosphare	Thinners, Osppersonis	baroid
Bersgel 3000	्रीवी स्था भी भारतकार्वीय स	Vinnadiam	Retoid
Dan state	Temperature statta ilgnita powoer	Pilitare Reducers	Deroid
Baraplug	Sixed and treated sale	Loss Chraneston Manerial	Renold
Deres sett-Via	Owanophilic ylescelifer for olle	Vaccosffere .	Deroid
Editation ()	Priwiereri eratium sulphite	corros on Inhibitar	Bareld
Barescav L	Chipal Congress and was again	conceion inhibiter	Deroid
Baraco'	Sodium sehnati sulphonsia	Shale Control Inhibitors	Barniti
Buranis	HEC	Viscosifiera	Caroid
Boroweight	Processed improsphonale	Weighling Malariais	Berniri
Barazan	Pulyasiconancia propolymer	Visconflers	Baroki
Barazan C	Dispersion enhanned vanition (sum	Victorifiera	Rerold
Spigeon D Plus	Dispersent added blopplymer	Viscostiers .	Deroid
Berezon L	Liqued vanifican grem benjunymar	Vinthelierk	Dimit D
Quelly	Processed better (Da3O4)	Walghung Mellerials	All
Berlum Carhonsia	Salum carbonale	Commercial Chemicals	Imco/Al
PartVerge	· Iron codde	Weighting Majorials	Deroid
Bamilton	Fibratis collidasio malarial	Lost Circatation Malerial	Bemid
6970(0	Bartisusarium eulphane (Ba3 D4)	Weighting Materials	Baroti
Barniri 100	Ali nii Ituld system	Eysanna	Barniri
Derutit	SCOCHIV I DO NO MONORITATION STORY SHORT PROPERTY AGENT	Viscosillers	Baroki
Baro Lube GG	Statisciani/k thrieshi Nand	Lihricanta	Remin
Derosear	Qombinphon LQM	Logi Çirççiştişir Melarişi	Darold
Baro-Spot	Hierd of Anionic surfaceanic	LiMenk	Pamiri
Baro-Trui Phio	Diended hydrocartion powder	Ghale Control Inhibitors	Deroid
Ran-Py	Co-polymer flocculant and day extender	Viscossieus	AltiKatro Oddeld Group
₽ WidDis	Modified organicatility clay	Viscooline	Bri-Clean Supply Ltd.
Ranna 38	HTHP performance organically	Vinariaria	Rd-Cham Bignay Urt
Genione Bio	Economical organocay	Viscosiners	En-Crem Supply Ltg.
Peninga150	Sell-activating organizary	Vivyinibara	Brichem Slipply Ltd.
Dex	W/calcium carbonale stanilized HEC	Viscosifiers	Srine-Add Fluids
Carpris of Seeds	NoHCYCE	alkalinku pH control/coleum romovers	All

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Bin - Shrat			
BUOII	Non-toxic pit trop, water political spotted fluid for weighted much	Lubricania	Deker Hughed Integ
Moroto	Polyglysol ROP enhancer	Shala Conomi (nhihitora	Rotror Hughes Inleq
Dio-Lose 80	Mon-fermanting shamically modified attents	Filtrato Reducera	Boker Heyleys trayy
	Dull to \$2219 ut p.	SASIONS	Reker Higher Inseq
Rio-Pag Biovis	Organia derivata filtretion control agent	Filtrete l'teducers	Baker Hugiger Indeu
Biozen	ri E DiDpolymer	Viscositions	Decimal Segment
	HT biopolymer	Ylacodifiera	All/Keltu Offield Group
Burn Maggi	Olf-being sporting Ruid	Lutificants	Pater Hughes Inlea
Brack-Magic LT	Low toxicity spotting fluid	Lukricense	Deker hughes inunc
San Mari CTT	Spotting fluid concentral p	Lubresents	Roler Hughes Inves
Flacknisa	Coupled elecatio-based dispersion	Filt/eta Raducera	Sun Drilling Fryslyndy
Black dig K-Puy	Uquid potassium başad di soni a	State Conimi Inhibitory	Sun Drilling Producte
Riseath	Scolum Hypochiems	Declaration	Contestioner Utilities
gant gludak	Conditional designation of the Care RCS	Surface Active Apenia	M-I Swam/Federal
EMI Fasmisch	Anionio surfaciane	Fooming Apprils	Digital Mud
DOTE Lines	Blended hyprocarbon powdar	Ehela Control inhibitors	Brine-Add Flade
Printer	Low collaids high performance With	Öyətəmə	Detaid
Dore-Pizie	display of dispension programs	Shale Control inhibitors	Caramon Child
Arpole	Malatio steamers dispersed in stochol	dotumer	Drive-Add Fluids
Dri-Ohem Couples	Nu Hundo eur Rectant	Surface Active Agents	An-Chem Supply Ltd.
n-Chem Demorner	Forces surpose alcohol deformer	defeater	Bri-Chans Supply Lat
Bu-Chem M/0"	Cupterfirsted anti-tailing surfaciant	Surface Active Agents	Bri-Chem Supply Ltd.
Brl-Cnemeida	Liquid Biooide	backers dos	Bil-Cinini Sugarly Liti
Shope Se	Polymora, cardum Ignoquionaja, gali	Filizate Reducers	Gring Add Fluids
Rniglik	Sized delatum nerbangia	Liger Ofrcuts from Material	Brine-Add Fluids
prine Guard	Suprine scavenger - zinc caroons le	corresion inhibitor	Bring-Add Fluids
Ronadrd-N	Viscositied heavy bring system	Зувівть	
Grime-Ox	pulsy valengend OZ prasyer sper	compson inhibitor	Barold Bring-And Fluids
Animazile	Read ealt for density and fluts loss central	Weighting Malertais	
Dup-Kiter	Cruteratual vythr (30% 80k/80n)	bacisfories	Britan And Husta
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ga Ahanthani T478	Sized Zedille	Lost Circulation Material	Basid
Is taum Cartionale	Sizad calcium carbona-e	Weighling Materials	Cariarna a Univer
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Çen-Breek ECA	ocityleeio, gwar and elarch breaker	Polymer Breakers	Consmars United
Dan-Brask	Enzyma breaker	Polymer Breakers	Canamara United
Can-Ex	Bantorila adandar	Viacceifia o	Consmert United
Can-Fron	Surfection for mixing with of to tree pipe	Surfate Active Apenia	Canamara Uniled
Can-Oil	DONe obiested drilling fluids	Bystoms	Gymco Orldag Pluids
Can-OHFLC	Fruid iges godyo for st-ou system	FILM & REQUOSES	Canamara United
Carpo-Core B	Pielined OI	Drill Mud Date Fluids	Dater Hughes Inlea
Carbo-Cora R DII	All-oil drilling / drilli in fuild	Bystems	Raicer Hughes Inter
Surbo-Core B System	Sollred of invertentials	Systems	Baker Hughes Inleg
Corto-Fift System	Minaral bil mwart emulsion	Systems	Raiser Hillighea Inlen
Corton-Call	Organizativa homefloriasselfler for selide auspandion	Vienosifiers	Sever Hustres Integ
Certo-Mil (418)	Oil must emulated and walling agent	erni aller	Baiser Highes Inter
Cortso-Mul HT	High-temp emutatilerand welling agent	emulai ler	Caher Hugines Inlets
Carbonox	Lignitic hymic acid powder	Thirners, Dispersants	Beroid
Contro-Too	Dil mud amusifier	arrula frar	Donor Hushes Inlea
Carbo-Troi	Cill mud filrakion-algityalic bland	Flygle Reducers	Balger Hughes Integ
Gerbo-Troi A-9	Non-copholio filmoson, control agont for invona	Fülrete Reducers	Delter Hughes tried
Carbo-Trol HT	High -Lerna softening point allegable for improved Hitration in inverte	Filirale Reducers	Baker Rugnes Inlea
Oproo-Ma	Organo-bankovite	Vieccelifera	Daker Hughes Irved
Carbwalo	Calcium carbonave	Weighling Malerials	Birro And Fluide
Cal-800	Modified starch	Filtrate Redusers	Baroid
Cal-HI]	Modified celfulósic polymer	Fillrala Reducers	BAMIT
CENLO	Modified callulade polymer	Filterate Reducers	Cercial
Cat-Viz	Welani gum blopolymer	Vaccallera	Baroid
Countie Potent	KOH	alkalinity piri control	All
Causik Soda	MADH	alkalinity of control	Ali
00700	Liquia day control (wintercost)	Straie Control Intribitors	ICTC
CC-18	Causicized leonardie	Filtrate Reducers	Barnid
ODF-100L	Antorés polypszylemide	Shale Control Inhibitors	Concord Drilling Fluids
Celex	Sodium carbonymethyl cellulose	Filtrale Reducers	Bernid
Oeliofiaka !	Caliophene take	Lest Circulation Marceal	All
Callophana	Caldonana laka	Lost Carry fellon Muterfal	All
Cooker Formatio	High deneity brine	Walghting Metengts	Oanamers United
CF Deco	Organic thirmer chrome-iree	Thinners, Dispersente	Al Origina Specialisms
CFL 100	Chrome hee Agnosullonate		Georgia Pachic
Che4-Loss	Ground complexed cellulose	Loar Circulation Material	Baker Hughes Integ
Ghely Laux Course	Ground complexed colluicae	Lexel Circulation Material	Daker Hughes Integ

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Chel+Loss Plus	High ligain collutors LCM for ES in lavart fluids	Loci Circutation Material	Basker Hughes Integ
Chambreak EB	Ensyme for breaking polymers	Potymer Brankers	Prina-Ariel Finisia
Chambrack ECA	Enzyme bland for polymers and stargh	Polymer Brankova	Drive-Add Flydda
CONTORERCHO	Calcium nygogropie oxigizmo adeni .	Polymer Breakers	Bruss-Acid Figures
Chemcide	Liquid Stodide	bocartifica	Canamora United
hemolean Rig Wateh	Biodegradable ploangridagreaser	Surface Addive Agenta	Canamara Linteri
Chamleam	Foaming agent for water	Fooming Agents	Canamara Unago
Chembib K3	Corrosion Irmbitor & anti-anarobic baclericida	corresion inhibitor	Bring-Art Fluide
Chemol	Brookelsie ell-based mud	Systems	Barrig
Champi pH	pH convol - change averem	atcalmoy pH conimi	Carperpara Linkert
Chemoil-Buff	pi-i control - chomoli system	attailety of general	Cenamora United
ChemolHDFM	Deloamer for Chemoil system	riefnemer	Canamara United
Chemai-Cel	Sitica-golant	Viscopifera	Genemore Luited
Cutudi-flux	Cross-Engler anemolige	Viscoslitera	Canamere Unbed
Chancil-Thin	Thirmprior phomoli system	Thirriers, Dispersants	Childrent o United
Distinui OM	Inings for ar-based muds	Thinhert, Drinersands	Canamara Lintari
Chemtral X	High-temp filtration control agent for water-base flutde	Pikrata (Inducera	Batter Huches Intel
C)remail 1	Oli mud primary gray/sille/	emultifier	Canamara Imigel
Chamil II	Oil mud secondary emulater	grnuto/for	Canamara Unied
Clanener Org	Of mud wetting agent	CITU/SI SOT	Canamara United
ChevroucCAL	Worting agent	Surface Active Agenta	Opromers United
Chirch Fide	PRPA	Hooseans	Chiran Technologica
Chrome Alum	Chromio chloridu	Dommercial Characels	Imco/All
	COMPLION INVIDIO	corresion inhibitor	M-I Swarp/Fadars/
Cipto Apid	Aliabinity control	affectionly pirt control	AI
Liging giri	Ligmed Xanihan gum	Vacos kart	Drill no Specialities Co.
Chay Cirtabbur	Colocalve Recognition Hydro-Guard pystom	Pocculante	Daroid
Clay Sylp:	Shale Inhalia/ for Hydro-puerd system	Shale Control Inhabitors	Ramid
Clayconi Plus	Ampholeda material	Shale Control inhibnors	Geruld
CIBYTIO	Ampholenc amine complex	Shale Control inhihlarre	Raiser Hughes Integ
Close Up	Fig Wesh Closner	Europe Aethic Accres	Is also Noise CHM
Clearant	Low lox dby SHC mineral oil	DIN MUIT FARA FILITA	1/510
Cleared	Blanded polymers with corporation	Loot Circuiption Material	Milentum Technologia Liu.
Clearigam K	PORESSAUTI TORMATE	Shale Control Inhibitors	Milenium Terhnologies Lid.
CMC	Corhonymethyl cultulose	Filingto Perducero	AND THE PROPERTY CO.
Chau	PAU JUDICERI	Ulbricania	Sun Dritte Producte
Comporbe	Clarch evetum (1957)		aun unitro Probusa

Goastalube	PAC) Hybrigani	I utvicania	Sun Orlling Peoducis
Con Del	Mud Desergers	Surface Active Asserts	Bervil
Cengor 404	Phosphorus-based correction (n/kb/spr	conceins inhibitor	MI Swami Faderal
Core-dril	All oil thard eyecum	Systems	Barold
Cortnox	Correcton Inhibitor/coygon ecovernger	correins Inhibitor	Canamam Linited
Collipitsded Mulis	Felipus pigos pracisable hull merenel	Luce Cit cultivius Material	payer Hughes Imag
Crarrox MEP 429	S way packer fluid inhibitor	Compaign inhabitor	Rates Highns Inter
ORW 132	S way packer (bild & dillator	companie inhibitor	Daker Hughes Integ
Crystal-dell	Polymeric shale inhibitor	Shale Control Inhibitors	Ramori
C-90U99ZB	Elinara recincar additive	Friedly Restricts	Marquis Fluida
Сурля	Sortum Prhacrytate	Filirate Reducers	All/Firedine Shit dions
D178 Pius	High-temp polymor fillingte control for high abilities controlled.	Filtre Feelings	Dattibug Spagelydikes, Cu.
Detalite (famile)	Ugrille	amiddler.	ÁR
Dap	ulpmonlum phosphale	Shale Control list littern	Al
D-Breok	Viscosity breaker for pure oil systems	Thinnore Disportants	Concord Uniting Fluids
D-Byff	prj. gonwoj - pure di sysiems	alkalmity pM control	Concurs Otiting Flatte
D-Control	pid control - pure sil systems	alkalinity pH control	Concord Driffing Fluids
DD	Dilling Descript	Syrigy Activy Agents Chair Control Inhibitore	M-I Smare/France
Despetal Inhibitor	Gland of polyglycarina and mathyl pluocalde		Nowpark Deling Fluids
Deform 2000	Silicanie Lyreyd defoe; no	<u> </u>	Bit-Chapti Supply Ud.
Dergem-2	Water micration for polymer systems	deframer	Firing-Arid Finiria
Deloem-A	Alcohol jasced platuenner	delvane	Fri-I ControlLenais
Aufwerner Silicone	Cilicana tra sed dalimenter	deframer	Canamara United
DBIQEO-A	Low suddily defamilier	र्वस्र(सास्	M-I Öwscu/Federal
Densimb	Hempilin	Weighting Maredale	Rater Higher Inten
U9900	Organic ditayler	Thingers, Dispersente	ANDHIM Specialion
Delargent L	Driffing Mud Deterpont	Surface Active Agents	Pn-Chom Supply Lid.
Data N LT	المرابطة والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع	Férato Reduces	Basind
DF -10	dry PHPA	Flocoutente	IDF-Technifulds
Diamond Soci	Absorbent guillelic pulyiner	Local Chroniellum Michigan	G _e nçid
Dissert M	Plended I.Cm material	Log Circulation Marantal	All/ Drilling Specialities Co.
(Jupo)	High denelly low solids RDF	Gyplene	MH OWERL/POURE!
Disposes	Welling agent, mealigy modifier	omulcilia-	Bri-Chom Supply Link
L-Link	Viscosity activator-pure oil systems	VISCONITION .	Concord Orbling Fluids
DME	Mon-torte emutation	omutsifier	Imoo
DNS	Manyonic surbassing	Surface Active Agents	Impo
Dowcide G	Sodium Penlachiorophenere	pagler oldes	Imoo/All

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Orli Beads	Polymer beads	Libricans	Federal / Alpine
Onl Treat	Lecthin Bould	Surface Acres Agents	Berold
Drikoom	Polymer and steed carbonals blood	Viocaelliare	Concord Orlling Fluids
Offi-con D	BREAD F.OT-40/TIC/BRIONIC BUTTBOB BOSINE	ZUTEDE ACIVE ADELLE	SUB URANG PRODUCIA
Driloen DB	Uguld shelp inhibitor	Elwio Control Inhibitore	Sun Drilling Products
Unit-Dicklof	Macroground campage	LOGI L'ITCLIERON MARIONAI	Canamara Unsec
Drittorn	Fearning agent for weller	Fooming Agonts	Baroid
Orli Kan NUSP		Surface Acitye Agents	Milénium Téchnologiés Lud.
Ord Plug CM	Blanded etxed gollulada Thor	Logi Çirqviştişin bitşigildi	Millenium Teampalagles Lid
Jillah Detergeni	Cirthing delengent tipurd/powder	Surface Active Agents	Cariamaca United
Drilinus Plus	Amphiciente cellulace ether	Filtrale Reducers	Milenium Technologias Ltd.
Drillpsc HV	Potvanionic cellulose	Viscosillers	AUDING Specialise
Drilipgo LV	Dolyanionia callulase	Filtrate Reducers	Al/Drilling Specialities
Driff-Thm	Unrome-trae organic minner	Uningers, Mederacing	AULINIUM Specialises
Driff	Non-damaging day free polymer based ayelem	Gyeleme	Harold
Drift N-5809	Blend of organics	Lubricants	Barold
Drilotes	MIMO viocodifier	Yipogoffera	M-I Bwoco/Federal
Ordeler HT	High lightgraphing darch	Fulfale Reducers	Al
Drawel	Biodogradable domulation	Burface Acevo Agents	Concord Drilling Fluids
Driecal D	Synthigility HTHP polymer	FOrate Reducers	AUDITING Specialises
Driopoa	Polyenionia cellulosa	Viccos Fiere	Al/Onling Specialtics
Drisper, Plus	Polyanionic cellulose	Viscosifiers	AWOrtling Specialities
apac Ptus Buperio	Polysnionie ositylose	Filirate Reducera	AM/Drailing Operclating a
Orispec Superio	Polyanionic cell/lose	Shale Control Inhibitors	Al/Ording Specialities
DECO Boads	Polymer beods	Lubricanio	Drilling Open telling Co
DSCO Delosm	Propigrary de camer	defoemer	Al/Dolling Specialises
D-Trains	Things for pure of ayesama	Thinners, Disportants	Concord Driving Fairty
Dual-Fid	Filiale Reducer	Filtress Reducers	Me Swaco/Federal
Duo-Ma	Xenther gum, dispersible, non-alatified	Vibrasifiers	M-I Owncor/Tederal
Duraione HL	Urganophilic coloid powder	Filtrale Reducera	Barold
Duranak Plue	High-lamp sulfaneted co-polymer	Filirosa Floducera	Berold
D-VIE	Viscosifier - pure of systems	Viscosfiera	Contom Drilling Hulds
Dynoda!	Oriting Tulal delergent	Burface Active Agenia	Nowpark Draking Flyide
Dynaliber	Celulose fiber	Loşi Çirçylatign Majena	New park Orlling Fluids
Dynarod	Cround natural liber	Last Circulation Material	Priling Specialties Co.
Ecodul 913	Pólaksium silitary	Shale Control (rih bilate	National Silicatos
Ecoproon B	Easer bace fluid	Drill Muci Bano Pauch	Md Owerre/Perterni

	Principle of the Country of the Coun	ernulamer (M-I Swaun/Euderal
Ecogreen &	Secondary emulation for Ecogram system	emulcifor	M. Dwggo/Federal
Ecorol	Polyments #erole reducer	Mirele Reducera	M-L Swaco/Fodoral
EK 2000 Degrazen		Surface Acibin Apente	Sun Drifting Produces
Emu-Broak	Emvision breaker	Surface Autoro Augusto	Cérémara United
emugo	Chall base employed	arm dalfler	Brine-Add Fluide
Encapsulator	Liquiti polyacrylamida	Focularis	Cautinalia ritriled
E region/or	Liquid polyactylamide	Floropiants	Bri-Chem Supply Ltd.
Entspeason	Liquid polyacrylamide	Focusins	Canamara United
EIWHUMI	Low toxicity SHC mingral (v)	Drill Mint Rose Fluids	icte
Environ	Inorganie biodegradeble Rossulers	Fiocovente	Myseke Hydeu
Ewio Ka	Amne Sall	Shele Slaterer	Unier been
Enviroling	Sized bantorsis	Loui Circulation Material	Separate United
Enviro-Spot	Cili muo concenvere	Libricants	Ramid A
Enviro.Thin	Cryome-true Iron lighosulphonais	Thereon, Dispersents	58min
Enviro-Turq	Non-load Horidant	Lutricanis	Borold
Envirovert	Chloride free D6M	Sysigms	
Extra High Yalki Sersoner	Peptized wygming benjanke	Vucneham	IN I S-BCO/ BOOKEL
EZ Drli	Non-foorring vegetable ed bland	Lyonulita	Consmars United
Ec Mul NT	Cil-schiple surpolant flouid non-loxic	Amiddfar	PUTUNENTAL
Facren	in the lover emulative	emanufar emanufar	Porold
CZE-Slub	Liquid tuchesm	Lubricania	Eárció .
EYELSION D	Liquid lubricani		Sun Drilling Products
Enerlide CS	Liquid lubricani	Luteisen da Luteirenda	Sun Diffung Products
Ezpeido YLT	Liquid lubifosel		San Dividing Products
Ec-Gipo	DIENO CE SUNTACIONIS	چه کارنگلا	Suri Orlling Products
GC-Mud	Polyacrytamide polyacrytato	Luhrimana	Beroid
EZ-Mud DP	Silph philizing poyacrylamide	Sinsie Control Innipitury	
F7_Ptm	And polybio blend of LCM	Shala Control Inhibitors	Bercid
CZ-9001	Brend of englishers, Authorates and viscosiliers	LOSI Circulation material	\$aroo
FA toold oftoa	I must polygovianido	Lindonle	Rarold
Date-Mul	Emulation for Pateuro system	Bhole Control Inhibitors	Propin ar Gulullura
Fazenm	Rovership worting invert amulsion mud	emulation	M-I Swaco/Foderal
Fed Pac R	Polygriphic celluose	Oyslone .	M-I Swapur Fedoral
Fed Pac III	Polygnionic callulose	Vidcosillers	Federal Wittelasale
Federal Decile		Viacosifiera	Pederal Wholesale
Federal Reciprote	Art spec bante	Waghling Materials	Federal Whomale
	epaum mgn(mgrillonile	Viscos liers	Federal vyhoreesia

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The state of the s	addism monintarslands privated		
_ Fgti-Mix II	Alerroted L/DM	Merositors	Federal Whulstadu
Fed Rhoparticity	Organic thirese	LOSI Cificatellun Magenti	Forteral
Pack-Sept	Blenniert I CM	Therepre, Dispersors	Pederal Wholesale
Fedican D	Xanti-en genn visuusitet	Lost Circulation Meterial	Foresi
Fer-Va	Cymand barren	Viscositions	Pederal Wintessile
Ferrowate	Perrous carbonais	Workstein Materials	LAJ Supro/Federal
Flyor Flyor Course	Contract the Contract of Contr	WWighting Malerials	Drino-Aud Physic
Fiber Fluid Fine	Cellulate (per	Lwi Circulation Malerial	CU/Flowine Schelone
Duning	And spitale LCM	Lott Circulation Material	ALIFORNIA DE JULIUNA
AILH K	Polate unit all page	LOS Circulation Arginnal	Sim Firthing Products
Piller-Chok	High-Tomp Modified Elergh	erolidini lonino piena	M-I System redard
Filtranto	Polymorio videosiflermuid lose reducer uped in conjunction will beglants	Climate reduced	Parrid
Pitravia II	Enhanced from view-rating	Viscousium	braing Specialists Co.
Fittrox	Palyanionic (i.e.it) realt)	VI мады Приги	TYLEST GOLLIONS
LIT-S	Water-solid to hydrocally	Filinia Rankono	Detver Hughes Inject
7.0	Water-couple (type) contains	Filtratio Necturals	Dring Add FAids
PL-9	Waler-soluble hymro coloids	Fitialia Roducara	Drine-Adul Pluble
FL-6	Meline deligible Dilate 000000	Pilled by Postivicars	Bring-Add Fluids
LT-0	Water-solubly mydru coloids	Fillishis Recupers	Dri av-Aud (Tutets
FLT Flui	Vicilar-enlithe hydro cotoids	Pilirate Reducers	Brine-Arti Aulde
FLO	Water-solutio hydro columb	Filirola Radunera	
Flake	Waler-tink ride hydro collecte	Filtrata Requirers	Bring-Aud Fluids Bring-And Fluids
FIO-PIGIT	Descriptions (Lefter	Loci Circulation Molerial	EXHIB-TAN E-INGS
Flore NT	Polyment than loss artifles	Filiphy Reskapers	A//
FID-TOU	Minimal solido (No referença y 1984)	Systems	MJ Dug co/Fe chard
Fin.Vie Page	Modified starts danieling	Pilitate Réducers	M-I Swood Feegral
Pigngon	Promium kanyen gum	Viceophora	MJ Swaco/Fedory1
Flovic	Xanihan gum dispersible	Macoallera	MH STAW/TERRIEI
Form Dresker	Organic potaulare	Florestenia	AUCHTING Cpecialifica
Foam Briefer	Propie any riginamen	delamer	M-I Omays/Fedgral
Foani Clieut	Mechanical Chemical (Adultum)	deleamer	Flowling Solutions
	Mechanical Chamical deformer	gerbarner	Our Drilling Products
Form-A-Pk p	Acid soluble plan with arrait a porticipe	Lost Circulation Majorial	Millerium Technologice Lid
Comment Pilug II	Add soluble plan with arrest or porticing	Sust Circumingo (Majoria)	M-I Swarco/E906fBI
pma-A-Sel AK	Polymeri, LCM	Lost Churchion Material Unit Circulation Material	64.1 Blacon Findings
DITT-A-SELALT	FOVMENC LCM for oald climates	1204 C FOURSER AND (SAID)	MH Swacp/reparal
Form-A-Sat II	Polymenic LCM	Lost Churleton Material	LEU Bueco/Factoral .
		Lost Circulation Material	M-I Broggy/Technial

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AGHO bugus 25	Liquid polyecritride		· · ·
Ix Entitio	Princellum fromato	Flocoulania	Pour e Sobane
OC MALE I	Primary prodeliter	Shale Control Inhibitors	DMK Drilling HUKUS LYO
its day! Si	Secondary emulsible	AITUIS/Re-	DANK Drilling Fluide Ltd
6 Oil Sond	Cit aptuble suichide sCarryanen	errusiter	DANK DI PRINT TURBE U.D.
TK PORV	Bland of polymers	Corresion Inhibitor	DAMK Drilling Fluide Ltd
6 Gendo	Mariet eignose ambigge scaneudes	Videoilino	DMH Driting Fairly Ud
tx Thin	Dallocules	corresion inhibitor	Disk Cotting Fivide Ltd
Golone	Lead sulphide power)	Thinnan, Dispersence	DMN Emiling Fixeds Ltd
Ger	Scolum marmarillanile or Etapulglie	Welgishig Meterials	A
Gelax	SCUCH HOTTIM AT EXCEPTIBLE	Visionalitera	41
Getone II	Bénlonte extender	Viecositions	M-I Swaco/Federal
Gallone N	Of muri galling appeal	V4es0e/#ero	Baruio .
Gerune V	Polymer trained organophilic day	Vitcos lans	- Dor Gio
Goods KT	Arnine Irealed organophilic day	Wagos/liers	Disk stal
Giletonino	HT slebte bioplaymer	Viscos sign	All/Kalon Oliflato Group
CASCORD HT	Natural bitumen	Chaig Control Inhibitory	Al
Glass Boals	Natural biturnen pulverizad	Filtrale Reducera	All
Tolo Grouph 2001	STOR COME Dearly	Larbricagnita	
	Passaged aphonical graphies inen	Cubricanis	Canamera United
- Olymil	Polyzikylane glymi	Shoic Control impotents	
Go Davil II	Provides LERV for AHPHRON (Od system)	Viscosfiera	Mel Ewappyregena
3 aplies Fuels	GISTANIA	Lubricanse	M-I Swaco Foderal
Creatite	Non-U.O. Discuss	- backering	Cerjemera Unitard
G-Seel	Graphite pludding agen)	Lost Circulation Material	M-I D-moo/Federel
Cumhn Shigig	Liquid ahela inhibitor	Shale Loning Inhiblion	MI BWRDOFFEDBRE
Сурени	Calcium sulphole	Shalo Control Intibutes	Sun Drilling Products
HEAL	Flyoroxyentyl celluloso		All
H.M.C. Coayly	Noderchic surfaction)	Viecosifiera	Al
Hibarol	Modified cerulants polymer	Burface Active Agents	Canamara United
Liigh Permis	Amine	Filitale Reducers	M-I Ewapp/Fedoral
HRO ROR G	Oil-colubio H2B seawarear	Breaks Control Inhibitors	Newperk Unline Fluids
1131/0700	Liquid RASI Answeriger	COntosion Inhibitor	AU
Humalta	Lignite	correction inhibition	Daker Hughes Inted
Hydroggi	Wyoning Destanta	Inhoers, Dispersanta	Conomera United
Hydra-Guard	High performance work	Viscoelliers	Bit-Chem Supply IId
Hydro-Plup	POVIDEAC LCM for VIQUIES of CRYSTICUS formations	Systems	Seroid
ADGES NOOTH	1 Section to Victoria of Continues formations	Loss Oroutation Material	Baroid
	Uguld HMW enionic polyecrytamida	Spale Control Inhibitors	Canamera United

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Hypertrill AFRS1	Liquid HMW priorig polycontamide	Bhote Control (Antibiors	Canamara Urahai
Hyperical AFEO-POD	Anjurg: polysorylamids	Hoopilants	All
Hyparmili AF207RO	High Mal Mt. Anlanto polygorytomide	Flocoulants	All
Hyperdrill AFZATRO	LMW armoine dispossible PHFA	State Central (phintors	Canamara Linder
Hyperdrill CP 905H	HIMAN SOUCHO PHPA	Bhaic Corned lengtion	Caramine a United
Hyperfloc Crrs 10	Cultural polygorycymics	Fiocalignia	ÁII
Hyperiles CP911	Collonic polyacrylamida	Figuratures	AV
Hyperitoc NF301	No this it hopping the part	Fiocculares	
Hyeal Print	Water cotable fit at a skirling brings	Felimin Maducorn	Ering-Acq Plugg
i - Clep Fak	Multifunce Packag field riggs & beside projection	COTOSIGN Invibitor	1/2TE
IC- loam 1978	Winterfred (harner (explor solutio)	Foaming Agenta	icre
IC-CORR 102s	Wightnest ituali correllon inhester (ed soluble)	corresion in thing	icre
IC-CORP RSE	Linguist reprocion inhibitor (water soluble)	compelen inhibitor	icit
C-DEFORM 1450	White Lead or allumn (water squap)	deloamer	icre
C-DEFCIAM 1989	Wintertrat Uniform (of schible)	deformer	ютс
1G-400 2008	Microtox friendly liquid flogguster (weiter solutile)	Flocoulánis	- E
IC-line 9900	Migrotax Mandly liquid flaquidant (water colubio)	Piocalienia	KETE
IO-foem 1401	Winter Level (Gending payord (Walter solution)	Foaming Agenta	ETC
KCalmam 1840	Winterfixed oil farming organit	Fazering Agents	icre
10-foem 1000	Multi-cherrie Carette freentru arrent (water solubio)	Framing Agents	igie
CHSCAV 4412	Winterbert Ermid HDS proupoper (of adjusts)	corrocion intribitar	ie ie
IOH 180AY 4751	Whitenest house seaveness (which counts high-lamp)	COTTOSION Inhibitor	icić
IC#SCAV 4038	White that lighted EDE provinger (victor actuals)	corrector inhibitor	ĒĒ
IC-OSCAV 1000	W/\iBHzed calls\yzed pxygen scavgnggr	COTTOE (DIS Trib Dittor	icto
IC-Wal	water writing agoni (whiterteed)	Buriece Active Agents	ÉTE
ldcep D	Pühme is shale inititaior	Shaki Control Inhibitors	Mil Sunt A/Farleral
Maiha	Parlined vagetable oil	Labranta	M-I Swerzi/Federal
ldlubė X	Cxireme pressury lutrace (Lubricents	MH Swarn/Foderal
Imon Bar	Barile	Wolgisting Motoriels	IRAU
Arresty Biggs	Ascesia illera	ViscosMers	inco
mgo Brideçei	Altanı igle	Magnellem	linco
Impo Oal	Column Suranufferin	Thiriners, Dispersante	Imee
CMC (regulatuls.lech)	Parliam radossymallyl politikasa	Fétroto Reduçera	lineu
Imco Oefoam	Soutium alkyl aryl sulforceg	deloamer	lmen
Impo EF Lithe	extrame procesure lubricani	Lubrigants	bigo
Inco Fizikos	Celoutene faxe	Lost Circulation Material	lmep .
Imca Fla	Herwook extends	Thirmera, Diapersants	Imco

Imon Fine	Fixeoulating agent		
IFFCD FGB1 dans	Surface active dispersing liquid deleganor	Floorilania	Imao
Imco Freenipe	Oil soluble ourlectorite	defeamer	inco
Inico Fyder	Flbrous more no	Lubricanea	Ingp
imen (tel	Betterin	Lost Circulation Material	Jmco
Imou Gipliek	Peniphile Poender	Vincentiere	Imeg
Imon Holecout	Water dispersible painthall	Viocosi)era	lMca
Ampo Hyb	Benefica Lot transmire	Lifthjtants	Proc
Imm Ken-Gol	Delia (2000 continue	Yacostilara	mon
Friends) com	Visionsider & gotting agent	Viscostiers	4mee
Imeo Kongl-A(D)	Iliyeti amusun syaram	Oyptems	Imoo
Imca Karun	Primary amularier	emulatiler	lmax.
Imco Ren Pet	Calcium Acido	Shale Control Hijdbiggs	Irrico
Impo Ren Pak	Epecially modified seponded facty acid uline litteria	Ann delian	
moo Ken-Signema	Gelevinous of base fluid	Bysterne	Imco
nco Ken-Buprena A	Oil base mud	SV#/Ame	meo
non Kan-Suprema D	FBIY 600 emulsiliar	emula lier	(1000
Imco Ken-Thin	Emutation stabilizer	British or	lmico
mon Ken-Thin	Diapersani	Thereon, Diapo serile	Imao
	High temperature costrator	printed for	Imon
imes Ken-K	(PVS) émulsion system		ineo
mco Kay	Gub-boxloreto	Viscosifiere	imco
Impo Hwitiacol	Combination of distribles takes and femous replatels		lm pp
linico Lig	Mined Monte	Losi Okculation Material	Imea
Imco Lots	Prepoletanized starch	hinners, Diagonards	Imed
Inco Lubridean	Organio entity nautralizad with armines	Filirate Raducers	
Price MD	Delemen	Lultricanne	Impo
Imca Mud Oll	Oil dispersible parentals	Lubricania	Imeo
Imoo Myce (* C)	Ground Mica	Lifericants	moo
Jmen Oll-X	Low oper broom peruision system	Last Circulation Injury of	Imed
Imou Phos	500um etraphosphoto	Eysterna .	tmcg
mgo Pluc (FMC)	Walnut shells	Thereare, Otspersonly	Impo
men Preservatoid	Pagrome/dehida	Lost Circulation Material	ITIGO
Into PT-102		psc/audite:	Mee
Imax GBT	Filming emine	COTTON ON WHITE TO	Imao
/mca RD-111	Clustrachi compound	Thirms. Clade austs	Iman
PRO SCR	Diended lightsulprate bland	Trinners (184) greants	Imao
mo Sod	Share control responsion of Gity dolds, dufference of emphasis malerials	Bandalty products	Imco
	commo or with dolds, dullonetes & saleshare transmiss	Lubricants	Imee

	Spanially historical paint correctable		
tmco 8W6	The jul of anionic surfactores	20ff Osion Inhibitor	Imco
pinco Trip	Causticized Ligatio	emulation	lmen
Imeo VC-10	Mouthed Ignget/Jonate	Till year, Disperonis	Imco
BING VA	grabings bornhole conditions	Traverer, Dispersory,	man
Imco Wate	Caldun carponale	Amilia Nee	Imigo
Times Mad	Fibrous material troof	Weighling Materials	Imm
Imen XC	Decay by produced polymer	osi Circubian Malerial	Imeo
hrana iniya Intitrizida	Propeletantzod elarch	Viscosifiens	Imro
	Callo at Villa IC walkelell (thistor	HUBIE Returns	Deroid
Helikiox	Corrolled whiteled and a server per	Shale Control Inhubitus	En Cham Supply List.
Inda-Fiaka	Fishs Chicum (SCO) 1800	Compaint (oblider	Bri-Cham Sugary Les
NAGUER IN	Oil mard slabiliner reprieted	Leel Oircutation Material	Figwins Solutions
Jerhoke	Sittesided concorded	DULING AL	Barroid
Jet Clule 250	Gluera (del hydra	Lost Circulation Molectal	Barrie
Jet Hib 5000	N25 scayenger	BACIAFORION	Michigan Yeo autoges Lu
Jet Hit 0426	Corression projetion	corresion intibilia	Milanium Technologies Lie
JAI Hin 5432		COTTOBION INTRINGE	Address Terrescropies Le
Jet 6 to u 0000	Sylvani scarouls.	Percesion Innividual	Millerium Technologies Le
K-2	Drilling determent	Surface Active Agents	IVIIII-MAIN TOCHNOLOGICA LA
KZ(Enviru N2)	Cations, urganite multivalent inhibitor	Shate Control Inhipition	Military Today August Lt.
Kan	Palanxina mud produp	Systema	Canamara I Inited
RQ0-40	- Justiland 1 = C	Veccelhers	Pendus Mud
Kairan /	Phosphote ester corresion inhibitor	COTTONION INFORMATION	Bring-Ariri F Grids
Ketten XC	Liquia xanagan pum	Vaccoillers	Baker Hughes Irseq
KAPINI XCO	Yandan gum	Visconitors	AlVKeirn Cilifold Creup
Kam-Geal	Cx509risible grade xepinan gum		Alfreico Oilfield Group
Kim-Mad	Co-polymer for high-leave fixtration control	Vacosition	All/Knich Dilliold Group
	Polymer and sized corporate	Finale Redunere	Barbar (lug/ms trigg
Kensyl	Sulfahalad grahali	Maccoello a	Hillian Add Fluids
	Putasskam haralia	Shale Control Inhibitors	Flowline Substance
KANK-703	Combination LCM	Shale Control Innublure	Milleturn Terrimingies List
1.77-1	Mind and in water of children was	LOSS Circulation Metarial	Bri-Onom Kolw Official Grou
(D-9)	Polyging polydi de inamer for both frach & peliwoler shring (luid)	defoamer	Baker Highes Inles
I A Mari	LAC whileton supplicer	COMPANY	Daker Hughes Integ
Les Supermul	LAD emptalier	Crraibillet	Pairrold
Iraco	Ligning	ATTURA Rest	
Mgcon	Caucidized Lightle	Thinners, Dispersons	Deruid
		Thinners Dispersents	Hoker Hughes Integ

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Umite	Lignita(Humo gold)		
Ugnile, Couracterd	Lighte Caralitized	Thinners, Dispersante	All
Llonecel	Calcium Spngguliete	Thinners, Disporantis	All
Limp	Hydrated Lime	. Thinks, Dispersante	Consmore United
Uouid Drispac	Polyentonio dellulose	elkalinity pH control	All All
Liquid Florizari	Suspended (Brillian duri)	Viscontien	All/DAlling Conclutions
Uguid HEC	Budpanded I (D)	Vennegiliero	Al/Drilling Speciation
Liquidiscocia	Laqued lubricant with beads	Viscosiliers	Al-Ontring Encountry
Uqui-Dril	ROP withouter	Lubricants	Sun Drilling Products
Liquigal	Cloud dispensed stanthan gum	Montania	Berold
Liguispacea	Concentrated outloand	Viecotifiers	Enne-Add Flads
Uguada Er	Dispersed liquid HEC	Sufface Active Apartia	Canampra United
LUbe-100	Low toronty (ub/con)	Viscosificas	5eroid .
Lubra-Boads	CIMITY Denzene abrene beads	Luhrisania	M-I Every Tederal
Lubrafiber	Modified celul dec fiber	Lubriconts	1 Baroid
Labra Çikjo	Clurity dentend styring beads	Lost Circulation Descript	Bun Dribing Produces
Lubra-Seal	Modeod deficience filter	Lubricanto	Sun Daling Products
Lutra-Cast C	Sized Gellulose Eber	Lost Circulation Material	Sun Orlling Products
Libra-Seal M	Fixed collulates been	Led Circulation Moterial	Sun Dilling Produce
Magaobar	Bartle	Lost Circulation Material	Syn Drilling Products
Mancooel	Sod um Manimeritinile	Weighting Materials	Magcober
Magma Fiber	Acid soluble apun mineral filter		Моделент
Magnaffoc 10	V. high mai wt. Aniania polyacrylarnia	Levi Circutation Mangagi	ALF pwine Solutions
Magnafios 24	High Mg, VV. Amortic polyscylamide	Floreridania	All / CIBA specially chamicals
Magnafloc 351	V. high mol wt. None broke	Flodoularita	AU / CIBA sonocity chamicals
Magnafive 368	LOW MOIL VAL CHOOMS CONDITION	Hora Jania	All / CIBA specially chamicals
Gonesium Oxide	pH buffering agent	Flacoulerite	AF/CIBA apacially chemicals
Mexim-N	Mixed malal si cata system	alka nily ski commi	Consmara United
MD	Goodgradable drilling full distance)	Cystems	Bamid
MF 30 L	Liquio polyacry(8/hide	Suiface Active Agents	Boker Hughes into
MF 30L	Liguid polygory amide	Pioccularies	Mergula Fluids
MF BASES!	Fill ale reducer addition	Shale Control Inhibitions	Marquia Fluido
Mr Basemul	Surjectant	Filirata Raducera	Margula Fluids
MF Emul	E-UMSHat	Sufface Active Agenis	Marquis Fluida
MF Pac LV	Palyaniania cellulasa	Gurtone Active Agenta	Marous Finds
MF Pag R	rolyanipric cellulgae	Filitate Reminer	Marquis Fluids
MF Rignale	Rig equipment prolocitor	Filencia Recucera	Marcula Fluida
		Surface Active Agents	Marguis Fluids

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MF Bigide	Low mol. wt. cotionio	Fitografants	
MF SIADAD		Lubricants	Marquis Fluids
WE SHIMD	Rig oquipment dissing:	Sufface Active Agents	Marcula Fields
	gelective Topo: Incl	Floorularda	Marquie (Tude
WF-Emui	Primary emulation	CTIT DE LA	All Kelon Offeld Group
MF-9/35	Non-amonic polygovismide		Marquip Plutos
V FADILWAL	Oil welling grant	Shalo Control fritribilion	AUKelos Citiolo Group
AIF Ollerat	Oli Welling agent	6Mult for	Margute Fluids
MF400mere	Fig component protector	Burface Active Agents	Marraits Fairle
MF-Vis	Xankhari pum	COTTOBION inhibitor	Marque Fluigs
M-I Ber	Engla	Veccellers	Vargue Fitade
MH Ceder Piber	Shredded cadar ther	Weighling Maradale	M-I Sweco/Padaral
MH Get	Wyoming bentwrite	Loci Orroutation Meterial	M-I Swaco/Federal
M: Oc! Suprems	United wyo mind benignite	Viannation	M4 Overo/Foderal
MH Lube 100	Goneral purpose lybricant	Viscopillers	MH Swadow Fadaral
M-I Gool	Lim for tracificed or Middler formations	LUMARAK	AN-I Owerso/Pederar
Mrc	Bitrod mice fisher	Loci Charevon Malariel	M-I Secret/Foderal
Migratox	Mice fields	Losi Circulation Material	A
Micronaira	Enhyspool feativities density (futo	Local Circulation Majorial	Bamki
M-Bor	Banke	Systems.	GNEX Schriona
Val Bar	Paris -	Weighting Materials	Michem
M-Care		Weighting Materials	Baker Hughes Integ
WILCOUD Sense	Stred ground carbonalist	Lost Oirculation Material	
MI-Green	Multiple grand size series of ground carponals	Lots Circulation Material	Paker Hughes Inten
Mex	water soluble, brodepraceble delement/howerh	Burlooc Active Apenia	Baker I luphes tracq
Mil-Fram	Co-polymer	Floorylace	Baker Hughes Inten
MEGard	yage is the said and this fluid	Lubriganta	Below Hughoo Inted
Mil-Gard R	Guiphido copyongor - sinc carbonate	COTTOSION Inhibitor	Baker Fugher Inler
Milan	Cliefated zinc I profutionals	Advisory (nhibate	Baker Hugnes Integ
MIROL NT	Wyoming bonionte	Vectorians	Baker Hiighad Inlah
Tilenolum Floc	Limitated wagming bentonite	Visconifers	Baker Hugheo Inleq
Mil-Lubo	Disponsible polymer ficeautions	Floorubota	Haker Hughes Inleq
Mil-Maci	Vaustable oil ubritaril	Lubriano	Millerium Tectedogles Liu
	Non-abrecture mice faiture	Lost Circulation Malegal	Baker Hüghes Inlen
MI Foc	POWEDIONIC celtuloge	LUNC LUNG (CAM Molecula)	Bullet Faugrera (nieto
MIPRC V	Low viscosity polyenionic resultors	Films Reducers	Baiser Mughan Insen
MILPAUR	Course Built house	Fillrain RATURATE	Device Hughes miss
VIX-Seal	Blanded LCM pyrolebia in three prind stres	Local Circulation Meterial	Baker Hapton Inner
	The state of the state	Lost Circulation Metertal	Beker Hughes Integ

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MII ASOS	Hydrolland polyacryterists		
MF808	Hyrianilizad potygonylemide .	Flocations	Dahan Huga em Irméd
Mil-Rhamb	Commission training to	Shale Control in ponos	Balan Hughes Integ
MIFTERIO	Suttingted styrens, major Enhydride m-palyme, for water based muse	Fikrate Reducery	Baker HUDI:se Iragg
Minimi	Pure oil read loss out that	Thinnen, Doggersentit	Rights History Integ
Mix II	Biended calcium cartenain & polymers	FIRDIO REGUOPE	Concord Shifting Fluids
LAU.Y li	Ground controved LCM & Druguing agrent	Loci Chusainn Maisrial	MI PARSONFACION
Mon Pau	Premium proyenholt cellulose	Lost Circulation Maurici	MA SWOCA/Fraged
Mon Rac Ultrale	Premium polyanignių us Moses	Albeit Neutrons	Millimuting Salutions
MRQ 2100PS	Potassium plinee bornd mud	Flitrain Parkipping	ANTiowline Surjection
TL Bla-Clear 2000	∆birr∧	Systems	Marguda Fhidde
MTL FConda with	District for least systems	barriorigidae	Millerstant Trading Agricus Life
L Power Class 2000	Alkaling-tryls day weets	ngerschib	Millanium Technologias Lid
MTL Styrshald	Me Danamimium	Airfono Belive Aponto	Militaryum Yechinductes Lac
M/L Lilia Produc	Boop surfaction adva	Ohsie Control injeptors	Millantiam Technologias Ltd
MTL Unitalizati	Foaming agen?	Surface Acilva Agents	Milienium Technologies Lin
ITE Lilitemins PA1	Correspont Inhibition	Fuerriday Apparts	Ullientum Yachnologiae Las
TE Ultraecay 5000	HZS solvenger & corresion inhibitor	All digits in section	Milloeium Foulensunded Ltd
Mud Han	HARY anions (Leaviside Inhibitar	sarryesture intribility	Milionium Technologias Lid
MUSI FIOC II D	Dispersible season appropriate	Finoquiante	Dri-Chern Stanty Ltd.
Aud Lile	Enhanced from surfactual	Piocestagus	Canamara United
Mud-Pa:	Corrosion inhibitor for collect boton packer (Article	Surface Active Agents	Green Salutions
Mul Sperse	Application in marries (or, expect pages and property (VIQ)	corresion numberor	Pinker Huphes Inles
Mulaparso	Surfactori	emukilor	Sun Drilling Products
Nahira Ge		Surface Audive Agents	Euri Driting Products
N-Dri HT Pius	Wyperlog Senstaining	Viceaniere	Ad Products
Now 1077 Invest	Significed non-lands ele-ch	Fill of the Post Michigan	Beroid
New York	Calt-res Invair.	Sylforne	Newpark Di Juliy Fruids
New-Dal	Journ polyery/sus	Tian viera, Depersona	Raker Hughes integ
Non-Onli Plus	Liquis PH/ A	Shale Control Intibitors	Daher Hugher Integ
Newfoam	PHPA	Strang Control Intribilities	Baker Hughes Integ
cwimers Dreaker	Bufformi bland	Forming Agents	Nonpel Other Fulls
Newpol	Deformer for form systems	defaumer	Name Della Fulda
Newig	Wyeming contonlic	Viscouffers	Newpark Drilling Fluins
Newphon LV	i denta	Thinners, Olganiprio	Nowper Criting Ruids
Propertion	LMW disportible PHPA	Shale Control Inhibitors	I was a culture Huide
New-Vis	Socium Palyscovinia	Filh's to Reducin's	NewperA Drilling Figure
	Organic polymer brond	Viccomfors	Raker Hoghes Integ

PJ-How AF N Flow AG NG-SIK Novemod NG-SIK Novemod NG-SIRI NG-S	In-All a serio pression system broke programment program broke programment program Brand serious perfets Francisy meeting Liver-Security III systemic peaced meet Clearly-board syst meet meet Liver-Security III systemic peaced meet Liver-Security III systemic peaced meet Liver-Security III systemic meeting	Polymer Rosters Polymer Debetse Polymer Debetse Polymer Restors Ourbon Agree Ageng Visional gree orrulation Systems	Nowperk Driving Muses Ample Bender Bender All All All All All All All A
No515 Novembed Novembe Novembe Novembe Novembe Novembe Novembe	Firstly goddordding, hvocker system Band avid so yegetts Promiting mediting Primary grounder of symbolic rivers Low-stagonly IT symbolic rivers Low-stagonly IT symbolic based mud Overly-based symbolic rivers	Polymer Cherkons Polymer Personne Gunton Agric Ageits Visconii on consultari Systems	Parcid Elamid All All Sergori adecal
Novemed Novemy Novemen Years Novemen Novemen Novemen	Election (Apple appells Principle; meditor Principle; meditor Principle; multiple principle; meditor Liperistance IT synthetic based mud Outer-based synthetic based mud Outer-based synthetic page	Polymor Pressors Gurlace Active Actives Viscous Crys consideration Systems	Esmid All AH Swappyradaral
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Movated R Novembro	Checking ID synthetic based mud	druidfler Systems	MH Swappy Aderal
Mandred R	Chieful-passa SAULI lette Cama	Systems	M.J. Shidan Endand
Mandred R	LAO base surfleste mud		
	LAO DESE Aug hatte must		MH SWECO/PERIORS
		Bystome	LLI Buscottedam
	LAO bese fluid	Systems	MH Ewept/Federal
Novetec P	Low-end thoology modifier	Dell Mud Base Puids	MAI Support adord
Novathin .	Permatry constantion for November system	Viscons/Figure	Mrt Swaco/Federal
	(Dinner or synthetic tower emutators	ETTATIS#(48)	MJ Sygoo/Federal
Nurghings	Melijuš aliasij	Thinners, Disposante	MH, Swiggy Federal
N Plax	Liquid alkal An sail	Burissa Active Apprais	
N-Scal	Specially formulated extrusion (t)stens	Loxi Cirnibuton Majerral	ML Swapp Edgraf
MEQUARE	Cities (cells) one libers in a non-damaging polymer base	Loci Circulation Marietari	bened
Nul Piug	COMME DE IEMA EL M non campaging polymer bene	Lind Comutation Majorital	Deroid
Not Sholi	Character (Inspired Co.	Loss Carpulation Medical	1387010
NEVE PPLE	Crossed nullshalls	Lost Circulation Masorial	M-I Swgoo/Federal
NG 220	Xenthannesonic stery) elitor bland	TOTA CALTANIAL MCROWD	Commarg/ (c Imax
Carraze	LAI SDIII IN RESIA DOLVINGE BYRIGH	Viscostings	Borord
Ologia 2000	BOOKED OF DAGUICIA SPECIAL	Losi Ciro Astino Material	50ne Add Fluids
	Modified organizability play	cmusher	MJ Sweet Federal
Chipperito	Ornenic shadown	Vinontikers	Carrenge United
	Depotati for progressive site of	GTTU/61/hert	Prine-Add Flato
OVA-100	High parformance-enjonic Syriu and COM visions for	Dinners, Dispersants	RBtOld
	Ottomphile day	Viscoellera	
Optimal	Primary and little	Vierraifore	Saker Hughoo lateq
Utables	Secondary and spiller	timulatifica	Canamera United
Optimer:	Oil mud weeting agent	omus for	Noupark Drilling Fluids
Cimponolio	Outdoophile hard Medical	- comularing	Name of Bridge Plaids
Cort Defoattler	Occasionnil Charles to Car and Symphoto Muses	Firsto Rediscore	Nowperk Dritting Pluton
Mein Scavenger (OBHL)	On geompto users at the losting.	CELOWINE	Dilling Special As Co.
Park	200 System Neurote	control on least troy	Canagery United
Pac-A	Palyenionic uslightes:	TAX II BAILED REPERTOR	MH SW800/Fediera/
Palicities	FO/Whitanic cells loss	FIRTS & Rectucers	Deroid
- Misseller I		Fill this Production	Baroid
		Thirteen	Verious

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	En whither full Paral and dysdern		
Paramet	Emulation for Paralland system	enwith the r	M-I Bwacof wderal
Posnitz	Carriothorna (Investigationals)	omulation	M-I SHEDO PERIOR
Pelhin Ca	Chrome ligropulionale	TTWITTERS, CHEDOLISANTS	Reed Chorrisots
	Cirumè-line (maxifonale	Thirtness, Dispessants	Georgia Partilic
Finitex	POP enhancer	Y (A) I AUG. LABORISTAN	Coorgo Pacific
Percipto	Automic PolyBon/arride(PHPA)	Lundsprip	
Performantil	Highly in this two days free WOM	Tucatants	BRIG Fughes falog
Performan	High parigrossing hybrids was	March 2	Cibe Specially Ottomic
Perma Cose HT	Non-termenting polymerized atterpt	Зументь	Earoid
-crmo-thinx	Commence polymerson attends	Filmio Roducera	Paker Hughes Inteq
PH-16	Chiume-free lignosul onata	Tide word, Dispersage	Date: FUSTEE Integ
Pharyspal	Bultor syclem magnessum coude:	after riby pin control	Goorgia Pacific
Fine Soal	Trialingsal Carpinda	Low Circulation Material	Entro-Add Flunds
Proc Free Agent	Fibrous fisks and granular LCM	Lost Circulation Material	Flowline Solutions
Pipo Froe Agest		Date Confederation seedings	Brichen
PinaLay	Spoiling egent	Losi Circulation Nethical	Ortling Speciation Co.
Prov Out	Guick pipe funaciani	Lubricants	Military (Schinglingles Lin
Plation	Specifing agent	Curtoce Ayuve Apprils	M.I Cusco/Federal
	Starch System (1007) LAGSUTI Calcium Faring	Surface Active Agente	tiff-Chem Supply Ltd.
PDBIB'S W	Anionic surface solive sgent		Yorku
Plug-till	Pusawaki cadar (Pas	i shripanja	MH Sweet/Federa
Fluggar	Sizad sali water-ooluble bridging	Lost Circulation Majertal	Berold
Pha-6	His jurie - Iron Cools	Loal Circulation Mytorial	Binne-Add Fluida
Potoni	Potymer blend	Averaging Melecials	
Polheal	Polymer blend	Viseosifiers	Bring-Add Fluids
Poly SICCK	Blendard I Com les vugular à agresmous formations	Fillrate regulicars	Drine-Add Filling
Poly Flate	avijetimo tramovini i manaria i manaria	Linet Circulation Motorrel	Bring Add Flyids
Pry Prug Cheer Clai	Poyethylen@poycell.npsg fokes	Losi Creutenuri Malgrial	Diffing South led Co.
Poly Seal	Riended lost creutation pays	Loss Circulation Material	Canamara United
Polymo	CONcilination DO Novil (DEA 118) as	Lost Citualitation Majerial	AprCanamara United
Polydnii	Froad range Britale reducer	Filtrate Requests	AI
Polypa	1000) aprilimete fuidiosa additiva	Filippie Meducore	bereid
Polytosa		Finoculants	Congeses United
bypec (reg. UL)	District Facility Dies of		JSS Resources Lin
Polypar: R	Privarigno onflutose	Fausia Raducera	Concord Onling Fluids
Polyper Lil	wigs don't collulore	VISCOLATION	M-I Syusco/Fadetal
Paly Plaue	Life involvent	Filtrate Requipers	M-J Sweed/Fodge
ruly made	Proprietary liquid stand of audium poyabylate, lignosulfonate, ignito	Filtrate Redusors	M-I SMOCO/Federal
	Z are management, apring	Dentality extender	10E/ Tochnifulgo

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Polyska RO	Hydrolizaci polyaraylamida	MUSTARIA	M-I SHURRITEGET JI
Polysec KD	Sodium Polyecytole	Single Control Injugaces	M-I Samo/Fodorol
Polyoter	Anu-accretion system designed for BAGD	Rentor to extender	American Collogs
Polylex	Polymer, alread carbonatus	3 _{yeletin}	DIMOX SOLUTIONS
Polytrin	Fowder Uninger (Extreme randilicae)	Ferrale Redurpore	Ortino-Add Fillage
Port Va. II	Mixed metal hydroxipe	Thinnes, Depersaris	Consmera United
Poly-Xan	Discersible orada xamban49727 gum	Victorillers	Carrella United
Potesh	Peterphum chikrido (1904)	Vigurifiers	Consump United
Police skyrn Formula	KCOOH (KCC)	Shale Control (niviblion	All
POSSESSION BOILES	Polareium suifoheied ashphali	Shale Control Inhippore	Catamara United
clocolum Buighers	Kaso4	Shale Control Inhibition	AAPLEING Special les
Fowertif	INVIDIO WOM	Street Corang Innibitors	All
Preparyetys	Starch system (1867)	- Bysteries	Newpork Emerge Hurst
Printer Seal C/M	Blooded LON		Loughester madified Life (2)
rimary Emulaikar	Cli mud primery amultular	Legi Circulation Mercrial	Canamara United
PrDex	Palyacylou - FriPA bland	w is deliber	Chen Supply Ltd.
Pro-Clap	Folkecylamide	Bentrylik cotonger	Perfor Many
Protectments M	Water dispersible actionary	Processing	Manpara Draing Fluida
roleciomonio LT	Prioritable augmented agriculary	Shala Central Inhibitors	Baker Hugines Inago
P18-200	Diseasi-Lardo Supplication of all Evolution aerophali HT polymor alphabar.	Shalle Curiful inhouping	Raker Hugnes Integ
Puredrill HT-90		Prilymor Septifization	CHERT HUDROS INTEG
FUI9071 HT-40	Enhanced mineral of	DIRE MULL BIOSE HUNGS	4H Swarz/Federal
Pumpris IA 35	linkensed minorel oil	Criff saud Bota Fluide	Perconada
VIEWITTEN	Synthetic legal karra	Cottl Must Guster Platities	Peroganaca
Puredill OE	Syntholia apartiona	First Mad Base Fruids	Petrocampos
Pyro-Irol	Synthetic estar bland	Drill May Base Puros	Perrocanada
QM-12	Co-polymor acrylemide AICFS	Filinge Reguners	Patrocarydo
O'Mul I	Foliaseaun solicale	Diete Guntral Inhibitors	Bulyer Huythes Integ
C'MAJII	Diffrary amutation for mineral Of liverys	Private Rev	Q'Mox Bolulions
GMUL POTTETY	Secondary smultifler for mineral or inverte	ensitsifer	Ca Maxx Solutions
Mul Speandary	Primary emulaifics for \$5Ms	omulation	Clarax Solutions
Urac	Secondary emulsilier for State	cruigiler	Q Max Solutions
G-Sign	PAC	Februle Reducery	GTMBX Schrilling
Cultidit	SIZES OPRIODE Four	Lost Countillar Material	O'MEX GOLLEONS
Quikform	Solids from non-domaging soll lubing flying	Sveleton	O'Max Solutions
Duk-Free	MADE DIVISION BEDEVELOPER PROPERTY OF THE PROP		6aroid_
TATAL MAIN	Spotting fluid concentrate	FORmina Aperits Lubricants	Bernig
		Lub Estit	5-ruid

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Chilk-Gel	High yield bentonsty	Viscodiare	
	SUSPERIOR OF CONCENTRAL VIEWS FROM		Barviu
Ours-Train	Femericotto ligraputoreto	VISODelfier's	Paren
Challe-trol	Organic polymer	Thinners, Neparanta	BRUM
Onli-Tra	Organic polymer	Shate Control add Alure	Mamie
Quick VIS	Hyproxye by collulose	Viscoulant	Deroid
UVSL	Liquid pulyments vincesifier	Yistraffee	Q&CA
<u>Grwer</u>	Oliveting agent	Viscostilers	CMSa Station
Chysichen CF	Modified anticomplity/article gate (ii)	Burlaw Autyu Agents	O'MEN Solutions
A.O.P.E.	Protein Ubricani	Thirmare Picporecrite	AM/Tiomilia Suturions
Magreen EME Sak	1100-100-011	LUDINZEES	Sun Drilling Products
Fin pildrill	Water-based gasonical universit system	Listricants	Mayur Files
Rebound	Pagetient sortion beand LCM	Systems	Rim Dalling Products
Robound Fine	Masterit Carbon based LCM	Lost Circulation Adjusted	Опилд Зресфінда Со.
Reg/ Floc	PI-PA	Cost Orcodethas Magazital	Orting Specialises Co.
Real Peo	Programionie Cellulase	Plogeulante	/leef Driting Huga
ee Polymer Plus	Copolymer of codium spylate & spylatified	Printer and Party last control	Poor Orling Flydg
Rasinest	Reshered John	Floorigns:	
Resinex II	Tech producted (gran)	Fitterite Pediucers	MJ SuscerFodore
Phomod L	Modfled billy and	Filtrate Reducers	LL Common Address
*theolip	Blanded polymer	Viscontilera	MA Sheightederal
Rhadopal 28 P	Billing polymer	Vercellary .	
HOLOGODI XGO	Polyspechanda pnlymer	Viscosfiers	Bri-Circin Supply Ltd
FOM \$3	Polyspeonarida polymer	Viscosifiem	Rd-Chem Supply Ltd.
Subber Crumb	Ground Building	Visconiera	Att-Clien Suppy Lie
Calle Galy OM		Linki Circulation Actorial	Beroid
Safe Surio	EI 800 OF SUFFER BAND SOLVERIA	Guriaca Autive Author	Caramara United
School	Bland of colvons and authorizates	Surface Artive Argonic	MJ Swaco/Federal
Sans Cerb	5/ zed caldium carbonata	Loci Circulottes Maleria	MH Sweet Tunkeral
Safe-T-Cost	Gland policium carbonata	delated to delated	Mul Swatco Federal
8al-kole	Aming inhibitor	complete inhibitor	Mid Analys/Pedgraf
Set.	Arrina typo inhibitar	CONTROL INVIGE	Bri-Chen Supply Ltd.
Sall Gel	NaC NaC	AASITHIIND MINSUSA	Geremena United
Self Water Gel	Proceed depically	A AGENTAL MORNING MANAGEMENT	All
	Atlanualla		A/
Ser (rest Pril)	Calcium curbonale pelymer system	LAST Circulation Material	Parar Hughes Integ
	South acid pyrophoephale	EARLY TICHGROW WORKING	Ditter-Add Falige
Sawdust	Bowchusi	Training's, Double surfits	All
-		Lost Circutesian Material	Atl

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SPANACOR	Cloud a de preventike		
Start - N-Peerl	Fauto loos control gill	#OFFD#isan inhibitor	Deter Hughes Inlea
Secondary Emulation	Oil mud servicially equisiter	SYS IO/IIS	MLI Sugge/Feders/
Seperan	Popularisia (Cal-Chem mud system)	emelation	Bri-Cham Supply Lin
Sqr.14p	Liquid padyrount: westerd liber	Dugularis	Gal-Olem
Shale Bong	Water dispersible entakte-planetia	Viccoelilers	Mileram Technologies Lid
Sheardril-N	Colicie free moon ad pulymor duto averam	State Control Inhibitors	Saler Hughes Inleq
8141	Procession elizare empolitys drilling fluid	Systems	Cu of
Simple See	Cardium perturists polymer system	5ystems	IA1 Svengo#oderel
Caupteel	Colclum continues base workeyer cyclem	Lost Circulation Majorial	D-Intr-Acid Mulds
Shart glug	Blanky LCM	Féligio Heallogis	Rono Add Fluids
3(4-1090	District CM	Lost Circulation Material	Sun Orlling Producte
Srdo Ash	Synthetic topo of used in Syntems system	Day Muo dese Fluids	Galer Hughes Inlea
Soulum Chromana	Sepani Cathorate	Carium temeser	
Scoum Formuse	NH2CKO4 H2O	curution inhibitor	AII
Sudaym Sulfan	High yeard bring	Watgreing Malarets	
Egdum Sutohio	HT prlymer stabilizer	Polymer Steb Izera	Caramera United
Sulm	CXXVIII activitation.	corrugion inhibitor	AI
Schertico	Bodism ashprall sulphonate	Snale Control Inhibitors	All
3chul d-N	Elizad Cil-putubio restriá	Lesi Circulation Material	AUCHING Specialists
Soutiske	Rizori esti polymer system	SAR DE MIS	Distre-Add Fixeds
Salah Nagari	Fleshed salclum gerbrugstd	Lost Circulation Massain	Barold
Solu-Soldes	CII Shifted rowlin battle techniques Build	FIGURE REGUÇAYS	Baker Hughee Inter
Sauvs	Acid-potuble high Ibrid fuely LCM squeeza	Lost Circuspilon Motorwi	Brine-Add Fulds
Enoner Scot	Polymer & study make	Visiosina	Baker Hughes Integ
Sparan	Polyoster light	Lost Carrieron Majoriel	Bring-Add Filids
Sportery CF	Baril of Ramid	Weighting Agent	Cangruers Unlead
States K	Otrome-free lig soulforary	Throngre, Dispersonia	AII
La Tin First of Supreme	Caronic organic multivatori Innialia		M-I SyesOO/Fec BTB
	LOW VISCOUTY PAC	Fire Pactors	Al/Br-shern Bussey Ltd.
Siefio Regular	Polyananis califore	Firele Heckedia	Canangra/Fol mex
Standriff	Trionality Ammonium Chilate	Paraig Haducers	Сэпэлым Афанталех Сэпэлым Афанталех
3landel	Fliration control LWD	Shale Inhibitor	Torandon
Siminea	happified statuti with blocking	cursie Reducers	All .
80 max 07	Non-farmenting derivatized stateh	Pilitoto Ploducera	Al
Plant the I	Composition for this trailing	Filirate Reducers	Al
Stop-mai:	Blandari CA	Loci Circulation Malariat	Barold
BuValed	Sultorqued katulati	Lust Circuladop Material	Beroid
	TOTAL AND SENDING	Stole Control Inhibitore	Puber Hughes Inlen

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DAN CC	Coupled gisortie-based dispersion	Shale Control Inhibitors	Sur Unling Products
Skiper Floc	Campair Polymor	Plocularis	Bun Unsing Products
Super Sweep	Treated polypropolene fluir	Viccositors	- 9
Super-Co_	Exita high yishi benlanta	Vitatoblera	Festpol Wholosolo Millenger
Bupartio	Lione	Thinners Dispenses	Delice Hughes Jalea
Sribeling (20)	NOO-jordic waster westing agent	Surface Apting Apprils	Consmars United
urt-Cole/Omni-Cole	Qi waking apeni	Surface Appropriate	Brine-Add Figlids
Buograph during	Omenothic viscosities for oliv	Viscosidary	Paker Hughes Integ
Sweep Wales	Octobervery alcord boritor bight density awares	Welching Materials	Earoid
Ayrie Uten (Ca-qp	Chárida tran amine inhibite	Shale Control (military	Barold
Synamical FR.1	Aurytemide AMP8 co-polymer		All/Syngronem
Syrucial PR-2	historial paro	Filmo Reducers	All / Synerchem
Synering that	Pely DADMAD	Filippo Paducara	All / synerchem
Synamou D7 Ib I	Caponic Co-oolimer	Fjormania	A4/ Symprothers
Synoritor PA.50	Povemine	Floorationes	All/Synarchorn
Symerica	X80F3A guar gran biende	Flogsdania	AL/Synerthore
Synarhow 2	Spenducia	Viscositors	Synerchem
Sys meliuses;	Surfacean blend	Viscoti liers	Synarghem
Swortin KS	Polangium furmaty	Feeming Agents	Synercham
Smilling	WMH CARGOLINI ITALIEN	Sitale Control inhibitors	Alliegrarotam
Symmetropes		Viacositions	Synerchem
YIMP SUNTAN 35-50	Liquid/dry LMM polymers	Itinners, Dispensers	All/Dynardram
Synwinin EX	Ligitif ThintAr polyacrylate	Thinners, Dispolarito	Al/Synerchem
SANSINA	Pomer Veryor polycu risks	Thinners Discourage	AVETTER
Synands L	Giper purm	Viscuelflece	A/Simercian
evnenian	Chargem Rivid	VECNATIAN	All/Eymanchagan
Sylector D	X8dlhan pum	Viacounters	AVSynerchem
Dynaman L	Diapera title senthen gum	Viscosiliera	All/Synerohem
Switters	Xanthan Hound	Viscostflore	AlfSynerchem
Y-302	Low viscosity symmetic obdin isomer offiling field	Systems	Beller Hughes Integ
Tannis/Tannax	Glueracahyda	bectericides	
Tarcion		Thrings	- Al
Zempans	Afteriocration for hittimen	Surface Active Apprils	AI.
on Determent 20L	Suspension agent for oil based and synthetic much	Viscosillera	Mile Swacco Federal
RO FING HD	Weign-squible, blode are dable deterpent/rigweeh	Burtage Active Agents	Berord
	High mot Wt. Anients dispositible PHPA	Fiocations	Baker Huchos Inten
Tog-Thin Thoma Chuck	Chrome-free lignosulfuncto	Tremera, Dispersona	Bales Hughes Into
Inoma Chack	Extrame: hit retrate reducer	Filitate Regiucers	Barrer Hughes Inter
		TIMOR (CENTROLE)	Boreld

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Therena Mis	extreme high bentevitic extender	Viscoeffere	David
Therespay U L	Cartxxymelhyl stemh	Ritme Bedamen	
Thoma.Thin	Entremo high-tomp reduperfolsomount	Throngs, Dispersants	MH Sereso/Fedoral
TREMINGUE	High temporature stabilizar	Polymer Siable and	Barold
Thilkepulk	No toh-oye assistant NEO	Viscosi era	Dring-Add Floor
Thisquir-L	Liquid dispersed HEC	Visito Els	9rmo-Add Fluide
Thin.Tox	Mod-fool ligacoust hone to		Britomy FAAIS
Thinzit	Oil mud disconsent	Thirners, Usparsonis	. Censmand-initimes
Thor	Bland of polymers	Thirviore, Dispersones Wiscosillors	Curacy of Database Players
ThicPak	SIGNIZED Intxorript polymers		Renaulted Elucto
Thickel	Palymer bland for evaponding microsized self.	ViscosiFors	Enrie-Adel Mulas
Torturerer	Non-toxic lubricating agenr	Vaccations .	Enno-Add Fluide
Torg 2000	Han-freming vagolable all- based lubrican I	Lubrisanty	A0
Torq Paguogr	Louid Unicani	LUbricania	General United
Tronputabrita	Non-forming address began subrigant	Labricante	Dri-Chian Suggly Litt
TOIG-Lube	Liquid Giveor base	Abricants .	Consmore Linked
Trien II	Alechal Arride	Lubricants	Consessor Utilied
Terq-Trol II	Sulonsied woods big pi	Lutinganis	Rarold
Tampoloce	Frielian reducing class bands	Lubricania	Cariamera United
TROO	Sulicinaled viscessive it	Lubricanes	Garold
Transform	pH controlled foam system	Lubriconia	Bri-Chem Supply Lift
Tdmulau	Oil in water emissiller	Systems	Whatherford
Trimutao	Oil to water equipition	- tmulti Pier	Barraro
Truckli	All of CBM	Surface Adive Agents	Barod
Truvia	Repld yield organiphilis stry	Systems	M-I OWNER PERSON
T6301	Figures goal 6 Couldes	Viacosliens	M-I Swaco/Federal
Turbolink	Ephrosoverale Company	Filtrate Reducers	Bray-Publi Pluide
Turbovts	Liguid polymer mud system Liguid polyseopharide polymer	Syllens	Newpark Palling Hulds
TVIORE	Hydroxyothel Callulase	Wecosillers.	Newpeak Diffin Fluids
Utra Segi C		Viscoping	Cortani
Jina Seal Plus	Coarse pround cerulose	Loss Circulation Meterial	Ail
Ulire Geal XP	Medium ground relutions	Luci Circulation Material	Ai
Ultrabreak M	Fine dround coluiosa	Loof Circulation Majorial	HU
Ultracep	Internal brooker for filler coles	Poymer Breaker	B4ne-Add Fluid:
Ulradit	-divingue are in while for	Shale Control Inhabitors	M-I 8 waya/Tedenal
tragildo Beads	High performance WBM	Systems	ILLI SucconFodera
Tradide XLT	LIMINA Denzend Parent CO-polymer	Lybrigania	Miller du III (Jectin iniogras Lld
S. H. B. P. H. S. P. L.	Non-teaming liquid	Lixbricants	Millerium Technologies Ltd.

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Mirahib	Shelib tohibitor	Shale Control inhibiting	
Voinge	Chrimma Ignaturianara		MH Bleece/Foders)
United Cif	Chromo -free Epresulfonate	Thinacks, Dispersense	Baker Hunnes Injeg
Unificami	Symprotello surfactors hiero	Thinners, Dispersons	Batter Hughes Integ
Unipar	Polystrionic Constoss	Fooming Agenta	Conport Dolling Hulds
Unaro	Modified starch	Filldings Reducer	Abubas
Valler I/ID	Box kem grum/nosticzno	Filtreto reducera	I. MH Swaco/Fedoral
Verianal	Blended CM	COldium romawer	Mational Billiagras
Verterinari	Mineral of CaCIZ OEM	Lost Orcutation Maturiel	Milenum Technologian Led
Voracident ()	LOW lookely SELL Trace of	Systems	M-I SympoofFundam
Verlacoat	Blanched omutatiler and getting apart	Orla Mud Date Pluids	M-I Suraco/Federal
Versadril	Diesel palcium chirokia CAM	emulaifier	M-I Swadorf spend
Vprocrist 8	Discoil & ditty mineral adia	Systems	M-i Swaro/Tederal
Versehip	LIQUID VISCossiner & perion for obmuse	Drill Mint Rage Fluids	M-I Conscort exercit
Vertalia	Modified Sprite	Vidoos Figra	M-I Swapp/Federal
Versames	Emulaties for high-bride contant fuld	Filitate Reducers	M-I One ar Cateral
Vorsamed	Viscosity modifier	Cmutate;	MH Swarp/Farlers/
Versamed		emulalier	M-I Drosof war
Versimil	Law shear rate modifier for pit made Mindred of smutatifier	Viscosifiers	A SNGCVFA14cal
Versepec	Minoral on ournigite.	emulating.	M-I Dwaco/Feceral
Verseom P/S	Themselv aplysted organic intrology-	Alecasité.2	DE SWECO/Federal
Vorsetter	Primary amusation for Venezoro system	PEDITIS/Dec	M-J Overso/Federal
Versatrol	OY mud (lispansia)	Thirmore, Circle paries	Me Swing Feriorei
Versowet	Naturally occurring preontic	Filtrate Red core	M4 Swaco/Federal
Versawii	Dil wetting agent for all mude	smattler.	M-I Suspentantal
VG Euprome	Watting agent	Suffers Arthur Agonte	M-I Dwarp/Feperer
VGBP	Crostrophic stay	Viocadifion	M- Swaco/Federal
Viscom	Organisphilist stay	Visconfirm	
VISOLIS	ViscosiMna Colymar bland	Viocealigna	M-I BestcorFederal
Voicing	Trikotropio viacosfyling polymer piene	Viennellen	Concorn Drilling Fluids
W Delcam	Penjorne	VISION BOYS	Concord On Rep Flats
Wolfout Hulb	Alcohol boced deformer	(Finamer	American Colleids
Ypcherigam 104	Ground Walnut show	Loci Circusion several	Beingr & lughos Infag
Wordte Balt	Dolymer recyclabio foem eyetem	Bystama	AI
West zwine A	Sized Spiritor density and field lose control	Weighting Materials	Weetherlora
Wellzyma AC	Enzymo breakerwith blookle	Formar President	British Add Hights
	Elizyme breaker without bloc do	Polymer Presides	M-I Dwood Fnciaral
Wesiern Poly	Polyothylano flata	Losi Circulation Material	M. Ewaco Farlant
		- AN PARTON METERS	Onnement United

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Wetallo Apert	Oli med wetting again		
WF14C-100	pli controlled form	amuls Fier	Bil-Charn Supply Led
	UDD Intilutory	r daming Agents	Washerond
W) 1-0-200	UED Intelligen	eerrosion inhibitor	Weelherford
WF1-C-ann	UDD halldhaw	curres on inhibitor	Weatherford
WITT-C2-400	UBO Inhibitors	corrector everyther	Weetherford
WFT-DF-108	Deloamer for transform system	correspont inhibitor	Westherford
WFT-DF-I	Dalpamer for non-recyclable foam system	deformer	Weelberkyrl
WET-DT-1D4	Pelcamor for 104 lbam system	deformer	West strategy
WFT-100	Non-Metyrishin from	4e comor	Westington
VFT-F-104	Blended out factings	-caming Agente	
WFY-HP-104	Light bonded HEC	Forming Agents	Weatherford
FT-Oil Foam 2002		VECORTION	Weatherfren
WPT-PT-104	Fourning apprix (s) us	Fooming Agents	Wonthurland
VYL 100	Liquid Dienderl PAC	Viscosijem	Vsaiherord
WG 20	Bedum polyayyldla	FINANCE PROGRAM	Woetherland
WOZIL	THE TOWNS THE DELIVER WITH CHICKEN SUCKOCOME	Viscoeifiers	AV Kelog Cellised Rimup
Wyaming Gel	Lighted HSC	Vaccetion	Boker halgnes ifteu
XPelG	Sodium monimodianite	Vectorian	Baker Hughas intog
Xendria .	Tresser glow the	Burfaco Active Apprila	Овлителинго при
X0A-Hax D	Sem-disposable sanition gam	CITABLES VOING WEBLIN	Al/Kalen Olifield Group
Amihan(Kolonn)	Charactry dispossible xonthan warm polymor	Visious IB19	Bri-Chorn Supply Lt.1
Zanvis	KANFon pam	Viscouliers	Haker Hughes Inleq
XCM9 L	Сінтира қалингі дин	Viscotifiers	M
XCIde 102W	Doubt distribut yearing own	YISCORITIONS	All/Kelco Onfield Comp
X-Cids 307	Wintertrod Glassed Letterie	y a continuers	ALKatoo Oliferia Gigup
	SCINSZOORS-brook Mostre provider	bácieripipes	BEKEY Hughes Ireas
XL-Delgamér X-Lmk	High Molecular Willow Muskel Surfaces(I)	Declaridas	All
	Cross-ICKAI polymer with blendes LCm	deloamer	Constructo/Ho/limov
XLH-Rate	ROP emailor	Institution Metals	Dever riughes Intro
X-D-S-G	Treater playwile	Lubitanna	Eamed
LPC / I	Berecklin steen de	Share Control Inhibitors	AVMOISO OFFISIO GYAN
Zeogel	Alborithie trouder	Visiopel/lera	Mudon Services
48I80 /117	Uquid enionic coopularii	Vscos Len	Beroid
Zebg 7107	Liquid low mol WI, Calibrate enaguent	Floorulanta	All / TTD spaces
Zelej 7557	HYAN charge entonic or year starting	Flocquianus	ALLOSA specially chemical
Zoleg 7697	history medium change cathring philippop temida	Floctulenia	All / CIBA specially clear start
Z6Lag 7602	Very How medium charge callonic polycontemple	Flocculants	All/L/BA (Dectally reserved)
	The state of the s	Floorutenie	All / CIBA apercatly (Therefools All / CIBA specially chemicals

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MATERIAL SAFETY DATA SHEET

#1700, 407 2^{NO} STREET S.W., CALGARY, ALBERTA T2P 2Y3
TELEPHONE: (403) 269-2242 FAX: (403) 269-2251
1-613-996-6666 - CANUTEC - Transportation Emergency
1-868-243-9771 - ChEx38 - Chemical Exposure

KIM MUD

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: KIM MUD
Chemical Family: Blend of polyacecharide
polymers, calcium carbonate, calcium lignosulfonate.
WEMIS Classification: Not controlled
Workplace Hazard: Not applicable

Product Use: Viscosifier TDG Classification: Not regulated Packaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients

Percent

CAS Number None LD₅₀ (Species/Route)

LC30 (Species/Route)

CECTION I	MA
DECTION III:	TOXICOLOGICAL PROPERTIES
	TOTAL PROPERTIES

Roble of entry:

Skin

☐ Eye Contact

linhalstion

Ingestion

Effects of acute exposure: Treat as nuisance dust. May cause mechanical irritation to the skin, eyes, and respiratory tract.

Effects of chronic exposure: No effects expected

Exposure limits: Not applicable

Irritancy of product: Irritain to skin, eyes and respiratory tract.

Sensitization to product: Not determined

Carcinogenicity: Not determined

Reproductive toxicity: Not determined

Teratogenicity: Not determined Mutagenicity: Not determined

Name of toxicological synergistic products: Not determined

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KIM MUD

SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin for 3 minutes with soap and water. If irritation develops or persists seek medical attention.

Eye contact: Rinse eyes with water for 15 minutes. If irritation develops or persists seek medical attention.

Inhalation: Remove to fresh air, if not breathing, administer CPR. Seek medical attention.

Ingestion: Give victim I-2 glasses of water. Do not induce vomiting. Seek medical attention.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Dry Tan Pawder, Odorless

Odour threshold: Not applicable

Specific gravity (°C): 1.85

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C'): Not determined

Freeze/Melting point (°C): Not determined

pH (%): 7.5 (2.0% Slurry)

Co-efficient of water/oil distribution: Not applicable

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KIM MUD

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extingulahing: Water, Water fog, Foam, chemical and CO2

Flash point: Not applicable

Upper Hammable limit: Not applicable

Lower flammable limits Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Steble.

Product incompatible with: Strong Acids and Oxidizing Agents.

Conditions of reactivity: Not known

Hazardous decomposition products; COx

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KIM MUD

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest MOSH approved dust mask; nulsance dust. Suggest chemical resistant gloves and safety glasses.

Specific engineering controls: General mechanical ventilation.

Procedures for teak/spitts: Vacuum or sweep-up if dry. If wet, pick up with dry material such as sand or dirt. Avoid flushing with water as material may become extremely slippery.

Waste disposal: Dispose of material in accordance with local ordinances. Landfill is suggested.

Handling procedures and equipment: Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.

Storage requirements: Not applicable

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: March 28, 2007

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because

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MATERIAL SAFETY DATA SHEET

#1700, 407 2ND STREET S.W., CALGARY, ALBERTA T2P 2Y3
TELEPHONE: (403) 269-2242 FAX: (403) 269-2251
1-613-996-6666 - CANUTEC - Transportation Emergency
1-888-243-9771 - Chex\$S - Chemical Exposure

Q'CLEAN

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: Q'CLEAN
Chemical Family: Petroleum Hydrocarbons
WHMIS Classification: B3;D1B,D2B
Workplace Hazard: Combustible Isquid, poisonous
Material

Product Use: Oil mud product TDG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

ingredients

Mixture of Petroleum Hydrocarbons Percent 100 CAS Number 64741-44-2

LD_{so} (Rat/Oral) >5 gm/kg

LC₅₀ (Rat/Inh) 1.72 rog/L 4 hrs.

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

⊠ Sktu

Eye Contact

⊠ Inbalation

M Ingestion

Effects of acute exposure: Not applicable

Effects of chronic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product: Irritation, defatting and drying of skin. Prolonged exposure to skin may cause chapping, cracking or possibly dermatitis. May cause irritation, but not permanent demage. Inhalation of vapors or mist will cause headaches, nauses, dizzlness and intoxication; severe central nervous systems depressant.

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Nut available

Mutagenicity: Not available

Name of foxicological synergistic products; Not available

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PACE 39/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



Q'CLEAN

SECTION IV: FIRST AID MEASURES

Skin contact: Remove contaminated clothing - launder before re-use. Wash with soap and water. Discard saturated leather articles.

Eye contacts Copious warm water flush - 15 minutes. Physician assessment mandatory.

Inhalattum: Evacuate to fresh sir. Apply cardio-pulmonary resuscitation if required. Administer oxygen if available. If resuscitation is required, physician assessment mandstory.

Ingestion; DO NOT INDUCE VOMITING. If vomiting – take care to prevent aspiration. Give 250 ml (½ pint) of milk to drink. Liquid paraffin may slow gastric absorption. Give activated charcoal tablets only if prescribed by physician. Physician

SECTION V: PHYSICAL DATA

Physical state: Liquid

Appearance and odour: Clear and colorless hydrocarbon odour.

Odour threshold: Not applicable

Specific gravity: 0.90

Vapor pressure (mmHG); < | kPa

Vapor density (Air=1): 4.5 (approximately)

Evaporation rate: Not applicable

Builling point (°C): 204 - 371°C (approximately)

Freeze/Melting point (°C): Not applicable

pH: Not applicable

Co-efficient of water/oil distribution: Insoluble

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PAGE 40/81 * RCVD AT 9/1/12007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



Q'CLEAN

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of fiammability: Will not occur under normal conditions. Treat as flammable liquid.

Means of extinguishings Foam, dry chemical, water spray, carbon droxide for small fires. Do not cut, drill or weld empty containers.

Plach point: 94°C

Upper flammable limit: 6% by volume

Lower flammable limit: 0.7% by volume

Auto-legition temperature: >225°C

Hazardous combustion products: CO, , So,, smoke.

Explusion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizing agents (strong acids, peroxides, and chlorine)

Conditions of reactivity: Excessive heat, sources of ignition, formation of oil mist.

Hazardous decomposition products: Cox, Sox, smoke on combustion.

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PACE 41/81 * RCVD AT 9/1/12007 2:48:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



Q'CLEAN

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Up to 5 mg/m3 (oil mist) none required. From 3 to 50 mg/m3, use an approved organic vapor respitator suitable for oil mist in areas with sufficient oxygen. Above 50 mg/m3, use full-face air-supplied or self-cuntained breathing apparatus. Chemical goggles if splashing is likely. Nature, Viton Chemical resistant clothing, if direct contact with liquid likely. DO NOT USE NATURAL RUBBER or PVC (Polyvinyl chloride)

Specific engineering controls: General ventilation. Use explosion-proof mechanical ventilation suitable for group D

Procedures for leak/spills: Avoid contact. Use full protective equipment and breathing apparatus. ELIMINATE IGNITION SOURCES. Contain spill. Absorb with inert absorbent such as dry clay, sand or diatomaccous earth, commercial sorbents, or recover using electrically grounded explosion-proof pumps. Place absorbent in closed metal contamers. DO NOT FLUSH TO SEWER.

Waste disposal: Incincrate at licensed waste reclaimer facility.

Handling procedures and equipment: AVOID SKIN CONTACT and INHALATION. Practice good personal hygiene. DO NOT SIPHON BY MOUHT OR USE AS A CLEANING SOLVENT. Launder work clothes frequently. Allowable exposure of 5 mg/m3 (oil mist) when handling.

Storage requirements: Store in cool, well-ventilated area. Electrically ground/bond during the pumping or transfer to avoid static accumulation.

Special shipping information; Not applicable

SECTION IX: PREPARATION

Date updated: January 1, 2005

Prepared by: Product Safety Committee

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PACE 42/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



MATERIAL SAFETY DATA SHEET

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STABLE K

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: STABLE K Chemical Family: Amines WHMIS Classification: D-2B Workplace Hazard: Skin and cyc irritant

Product Use: Shale stabilizer TDG Classification: Not applicable Puckaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients
Organic Amme

Percent 30-60

CAS Number 124-09-4 LD₅₀ (Species/Route)

LC_m (Rat/Inh) 1400 -2800 mg/kg

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

Eye Contact

Inhatation

M Lagestion

Effects of acute exposure: May cause slight irritation and/or redness, respiratory irritation, nausca and vomiting

Effects of chronic exposure: Prolonged exposure with akin may cause burning

Exposure limits: Not applicable

Irritation of product: Irritation of respiratory tract irritation on skin develops slowly after contact. Eye irritation develops immediately upon contact. Ingestion of liquid may cause gastrointestinal distress, irritation and possibly nausea with vomiting

Sensitization to product: Not known as a sensitizer

Carcinogenicity: Not considered to be a carcinogen

Reproductive toxicity: None known

Teratogenicity: Not known as a tetratogen

Mutagenichy: Not known as a mutagen

Name of toxicological synergistic products: None known

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PACE 43/81 * RCVD AT 9/1/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



STABLE K

SECTION IV: FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water

Eye contact: Flush immediately with plenty of water for at least 15 minutes. Get emergency medical aid.

Inhalation: Remove victim to fresh air, and if needed give oxygen if breathing is labored. Get emergency medical aid.

Ingestion: Do not induce vomiting. Give 2-4 glasses of water to drink

SECTION V: PHYSICAL DATA

Physical state: Liquid.

Appearance and odoer: Liquid, clear solution, odourless

Odour threshold: Not available

Specific gravity: 1.06

Vapor pressure (mmHG): Not available

Vapor density (Air=1): Not determined

Evaporation rate: Not available

Boiling point (°C); >100

Precze/Melting point (°C): Not applicable

pH: 9-10

Co-efficient of water/oil distribution: Not applicable

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PACE 44/81 * RCVD AT 9/11/2007 2:48:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



STABLE K

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Does not burn or support combustion.

Means of extinguishing: Dry chemical, carbon dioxide, water

Flash point: >100 °C

Upper Cammable limit: Not applicable

Lower flammable limits Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: CO, CO2, oxides of nitrogen

Explosion data-sensitivity to mechanical impacts Not known

Explosion data-sensitivity to static discharge: Not known

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong uxidizing agents

Conditions of reactivity: None known

Hazardous decomposition products: Smoke, ourbon dioxide, carbon monoxide and oxides of natrogen are produced from fire

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STABLE K

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Use chemical goggles or full face shield. Chemical resistant gloves. Use of an organic vapour type respirator is advised.

Specific engineering controls: Local exhaust in enclosed areas

Procedures for leak/spills: Small spills, pick up with absorbent material. Large spills, contain with dikes, pick up with vacuum

Waste dispusal: Pollow applicable local, provincial, federal regulations.

Handling procedures and equipment: Avoid ingestion, Practice reasonable caution and personal elemtiness. Avoid skin and

Storage requirements: Store in a cool, dry, well ventilated place. Keep container tightly closed and away from incompatible

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date undated: April 01, 2005

Prepared by: Product Safety Committee

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PACE 46/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



MATERIAL SAFETY DATA SHEET

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STARPAK DP

SECTION 1: IDENTIFICATION OF PRODUCT

Product Name: STARPAK DP Chemical Family: Modified starch WHMIS Classification: Not applicable Workpiece Hazard: Not applicable

Product Use: Fluid loss reducer TOG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients Nune

CAS Number

LD_{su} (Species/Route)

LC_{sn} (Species/Route)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of cutry:

🗵 Skin

Eye Contact

✓ Inhatation

⊠ Ingestion

Effects of acute exposure: May cause nuchanical irritation of the eye. Will irritate gustrointestinal tract and respiratory tract.

Effects of chrunic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product: May cause some minor irritation due to dust drying skin, minor britation to the eyes, gastrointestinal tract irritation. May be irritating to mucuus membranes of nose, throat and upper respiratory tract.

Sensitization to product: No information available

Carcinogenicity: No information available

Reproductive taxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synargistic products: Not applicable

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PACE 47/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



STARPAK DP

SECTION IV: FIRST AID MEASURES

Skin contact: Wash affected area with soap and water.

Eye contact: Flush tyes with water for 15 minutes and seek medical attention

Inhalation: Remove patient to fresh eir.

ingestion: Dilute by drinking large quantities of water and seek medical attention.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odoor: Solid off-white powder; starchy odour

Odour threshold: Not applicable

Specific gravity: Not applicable

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Freeze/Metting point (°C): Not applicable

pH: 9.0-9.5

Co-efficient of water/oil distribution; 100% soluble in water.

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PACE 48181 * RCVD AT 9/11/2007 2:48:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-55):24-06



STARPAK DP

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Dust and air mixture may be explosive.

Means of extinguishing: Use media suitable for packaging and surrounding fire.

Flash point: Not applicable

Upper Hammable limit: Not applicable

Lower flammable limits Not applicable

Auto-iguition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact; Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product incompatible with: Strong exidering agents.

Conditions of reactivity: Not applicable

Mazardous decomposition products: Oxides of earbon

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STARPAK DP

SECTION VID: PREVENTATIVE MEASURES

Personal protective equipment: Use an NIOSH approved dust filter. Suggest plastic or rubber. Suggest the use of goggles when handling.

Specific engineering controls: Local exhaust ventilation is recommended for control of dust.

Procedures for leak/spills: Use appropriate safety equipment. Avoid all bodily contact with spilled material. Small spills, sweep up and either recover to dispose in approved containers. Large spills, shovel and sweep up for reclamation or disposal. It is suggested that recovered material be reclammed for reuse. Do not allow material to enter storm sewers or storm water inlets.

Waste disposal: Dispose to conform with local disposal regulations. It is the responsibility of the user of this product to determine at the time of disposal whether the product meet criteria for hazardous waste. This product leads itself to recovering for reclamation if spilled.

Handling procedures and equipment: Avoid ingestion. Do not breathe the dust. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Avoid practices which produce dust.

Starage requirements: Store zway from sources of ignition. Store in dry well ventilated place. Avoid damp or wet conditions that could lead to spoilage.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: April 01, 2005

Prepared by: Product Safety Committee

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MATERIAL SAFETY DATA SHEET

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KELZAN XCD

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: KELZAN XCD
Chemical Family: Polysaccharids gum
WHMIS Classification: Not applicable
Workplace Hazard: Not applicable

Product Use: Viscosifier
TDG Classification: Not applicable
Packaging Groups Not applicable
Pin: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients Xanthan gum

Percent

CAS Number 11138-66-2

LD_m (Rat/Oral) >5000 mg/kg

LC30 (Species/Route)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry;

🗵 Skin

Eye Contact

□ Inhalation

⊠ Ingestion

Effects of acute exposure; Dry powder may cause irritation of skin. Prolonged exposure may cause drying or chapping of the skin.

Effects of chronic exposure: Not applicable

Exposure limits: Not established

Irritancy of product: Excessive inhalation of dust impedes respiration due to hygroscopic properties.

Sensitization to products Not applicable

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutaganicity: Not available

Name of toxicological synergistic products: Not available

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PACE 51/81 * RCVD AT 9/11/2007 2:48:01 PM (Eastern Daylight Time) * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



KELZAN XCD

SECTION IV: FIRST AID MEASURES

Skin contact: Flush with plenty of water. Remove contaminated clothing.

Eye contact: Flush with plenty of water. If irritation develops, call a physician. Remove contact lenses. Remove contact lenses. Remove contact lenses.

Inhalation: None anticipated. Remove to fresh air. Call a physician.

Ingestion: Essentially non-toxic. Consect a physician or poison control center for advice.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Light being powder, slight odour.

Odour threshold: Not available

Specific gravity: Not available

Vapor pressure (mmHG): Not available

Vapor density (Air=1): Not available

Evaporation rate: Not available

Boiling point (*C)! Not available

Preeze/Melting point (°C): Not available

pH: Approximately neutral

Co-efficient of water/oil distribution: Not applicable

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KELZAN XCD

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Dry chemical, alcohol foam, water fog, and CO2.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower fixmumble timit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Carbon dioxide, carbon monoxide

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong exidizing agents.

Conditions of reactivity: Combustible dust in the finely divided and suspended state.

Hazardous decomposition products: Carbon dioxide, carbon monoxide from thermal decomposition

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PACE 53/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



KELZAN XCD

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved dust mask.

Specific engineering controls: 10 changes per hour suggested.

Procedures for leak/spitte: Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes very slippery when wet.

Waste disposal: Handle as non-hazardous material

Handling procedures and equipment: Product becomes very slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Storage requirements: Product becomes very slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Special shipping informations Not applicable

SECTION IX: PREPARATION

Date apdated: April 1, 2005

Prepared by: Product Safety Committee

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MATERIAL SAFETY DATA SHEET

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XANTHAN GUM

SECTION 1: IDENTIFICATION OF PRODUCT

Product Name: XANTHUM GUM Chemical Family: Polysuccharide Polymer WHMIS Classification: Not controlled Wurkplace Hazard: Not applicable

Product Use: Viscosifier TDG Classification: Not Regulated Packaging Group: Not applicable PIN: Not applicable

SECTION II: INFORMATION ON INGREDIENTS

Ingredients Xanthan Gum

Percent 100%

CAS Number 11138-66-2

LDs (Species/Route) Not available

LC (Species/Route) Not Available

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🗵 Skin

Eye Contact

M Inbalation

Effects of acute exposure: Hazardous in case of thin contact (irritant), of tye contact (irritant), of ingestion, of inhalation.

Effects of chronic exposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Exposure limits: Not available

Irritancy of product: skin and eye irritant.

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Nor available

Terratogenicity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available

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PACE 55181 * RCVD AT 9/11/2007 2:45:01 PM [Eastern Daylight Time] * 5VR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



XANTHAN GUM

SECTION IV: FIRST AID MEASURES

Skin contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emolilent. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Serious 6kin Contact: Wash with a disanfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek

Bye contact: Flush with plenty of water. If irritation develops, call a physician

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Lucsen tight clothing such as a collar, the, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Light beige powder, slight odour

Odour threshold: Not available

Specific gravity (°C): 1.5

Vupor pressure (mmHC): Not available

Vapor density (Air-1): Not available

Evaporation rate: Not available

Bolting point (°C): Not available

Freeze/Melting point (°C): Not available

PH (%): 5.4-8.6

Co-efficient of water/oil distribution: Complete

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PACE 56/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * 5VR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



XANTHAN GUM

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of Hammabillity: May be combustible at high temperature

Means of extinguishing: Dry chemical, foam, water fog. spray

Flash point: Not available

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Not available

Explusion data-sensitivity to mechanical impact: Not available

Explosion data-sensitivity to static discharge: Combustible dust in the finely divided and suspended state.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizing agents and caustic solutions

Conditions of reactivity: Not applicable

Hazardous decomposition products: Not applicable

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PACE 57/81 * RCVD AT 9/1/12007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



XANTHAN GUM

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved dust mask. Splash goggles.

Specific organoring controls: Use process enclosures, local exhaust ventuation, or other engineering controls to keep airborne tevels below recommended exposure limits. If user operations generate dust, func or mist, use venutation to keep exposure to

Procedures for leak/spills: Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes

Waste disposal: Dispose of material in accordance with local ordinances. Landfill is suggested.

Handling procedures and equipment: Keep away from heat, Keep away from sources of ignition, Empty containers pose a fire risk; evaporate the residue under a fume bood. Ground all equipment containing material. Do not breathe dust, Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment if you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes

Storage requirements: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container lightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme hear and away

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: March 30, 2007

Prepared by: Product Safety Committee

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MATERIAL SAFETY DATA SHEET

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TELEPHONE: (403) 269-2242 FAX: (403) 269-2251
1-613-996-6666 - CANUTEC - Transported on Emergency
1-888-243-9771 - Chexes - Chemical Exposure

HT 40N

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: HT 40 N
Chemical Family: Hydrocarbon
WHMIS Classification: Not controlled
Workplace Hazard: Not applicable

Product Use: Drill mad oil TDG Classification: Not regulated Parkaging Group: Not applicable PIN: Not applicable

SECTION II: INFORMATION ON INGREDIENTS

Ingredients
Mixture of severely hydrotreated
and hydrocracked base oil
(petrolcum) and other propnetary,
non-hazardous additives.

Percent 100

CAS Number Mixture LD_m (Species/Route) Acute Oral roxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg

LC₂₀ (Species/Route) Acute Inhalation toxicity (LC30): >2300 mg/m³/4h (rat)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🛭 Skin

Bye Contact

Inhalation

(rabbit)

🖾 Ingestion

Effects of acute exposure: Short-term exposure is expected to cause only slight irritation, if any. To eyes and skin, ingestion of this product may lead to expiration of the liquid, especially if vomiting occurs. This may result in chemical procumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs). May produce a laxative effect.

Effects of chronic exposure: Prolonged or repeated contact may defet and dry skin, and cause dermattus.

Exposure limits; 8 hours TLV-TWA of 5 mg/m3 based on ACGIH TLV for oil mist. STEL 10 mg/m3 (til mist)

Irritancy of product: Eye irritation with oil mist spray.

Sensitization to product: This product is not expected to be a skin/respiratory tract sensitizer.

Carcinogenicity: Not expected

Reproductive toxicity: Not expected

Teratogenicity: Not expexied

Mutagenicity: Not expected

Name of toxicological synergistic products: Not expected

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PAGE 59/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



HT 40N

SECTION IV: FIRST AID MEASURES

Skin contact: Quickly and gently, blut or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 5 minutes or until chemical is removed. Remove contaminated clothing, shoes and leather goods (e.g., watchbands, belts, leather goods before reuse or discard.

Eye contact: No effects expected. If invitation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If invitation persists, obtain medical advice.

Inhalation: Remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Ingestion: NEVER give anything by much if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 mL (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs naturally, tinse mouth and repeat administration of water. Obtain medical attention.

SECTION V: PHYSICAL DATA

Physical states Viscous liquid.

Appearance and edourt Clear and bright viscous figuld. No odour or petroleoum oil like.

Odour threshold: Not available

Specific gravity: 0.845 @ 150C (59aF)

Vapor pressure (mniHG): Negligible at ambient temperature and pressure.

Vapor density (Air=1): Not available

Evaporation rate: Not available

Bolling point (°C): Not available

Freeze/Melting point (°C): Not available

pH: Not applicable

Co-efficient of water/oil distribution: Insoluble in water

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PACE 60181 * RCVD AT 9/1/12007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



HT 40N

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Low fire hazard. This material must be heated before ignition will occur,

Means of extinguishing: Carbon dioxide, dry chemical, foam, water spray, fog and water.

Flash point: Closed Cup > or equal to 104°C (219 °F)

Upper flemmable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Carbon oxides (CO, CO2), nitrogen oxides (NOx), part oxidized hydrocarbon fragments, smoke and irritating vapors as products of incomplete combustion.

Explosion data-consitivity to mechanical impact: Do not cut, weld, heat, drill or pressurize empty container. Containers may

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): The product is stable under normal handling and sturage conditions.

Product incompatible with: Reactive with oxidizing agents.

Conditions of reactivity: Reactive with oxidizing agents.

Razardous decomposition products: May release COx, NOx, par t oxidized hydrocarbon fragment, smoke and irritating vapors when heated to decomposition.

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HT 40N

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment:

Eyes: As a minimum, safety glasses with side shields should be worn when handling this material.

Budy: If this material may come in contact with the body during handling and use, we recommend wearing appropriate protective clothing to prevent contact with the skin. (Contact your PPE provider for more information.).

Respiratory - A minimum of NIOSM-approved an-purifying respirator with an organic vapor varieties or canister with a dust, fume of mist filter (R. or P series) may be permissible under certain cincumstances where airborne concentrations are expected to exposure limits. Protection provided by all-purifying respirators is limited. A NIOSM-approved positive-pressure, air-concentrations are expected to expected the expected to expect and a provided by all-purifying respirators or self-contained breathing apparatus may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Hands: If this material may come in contact with the hands during handling and use, we recommend wearing gloves of the following material(s): Neoprenc, Nitrile, Polyvinyl alcohol (PVA), Fluore-clastomer. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns.

Feet: Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Specific engineering controls: For normal application, special ventilation is not necessary. If user's operations generate vapors or mist, use ventilation to keep exposure to sirborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that cytwash station and safety shower are close to work-station.

Procedures for leak/spills: Consult current National Emergency Response Guide Book (NABRG) for appropriate spill measures if necessary. Extinguish all agnition sources. Stop leak if safe to do so. Dake spilled material. Use appropriate tren absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Avoid contaminating sewers, accounts, fivers and other water courses with spilled material. Notify appropriate authorities immediately.

Waste disposal: Spent/used/waste product may meet the requirements of a hazardous waste. Consult your local or regional authorities, Ensure that waste management processes are in compliance with government requirements and local disposal regulations.

Handling procedures and equipment: Avoid contact with any sources of ignition, flatters, heat, and sparks. Avoid eye contact. Avoid skin contact. Avoid inhalation of product vapors or mists. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated.

Storage requirements: Store away from incompatible and reactive materials (See section 5 and 10). Keep container nightly closed. Store in dry, cool, well-ventilated area

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: September 3, 2005

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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MATERIAL SAFETY DATA SHEET

KELZAN XCD

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: KELZAN XCD Chemical Family: Polysaccharide gum WHMIS Classification: Not applicable Workplace Hazard: Not applicable

Product Use: Viscoeifice TDG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients Xunthan gum

Percent

CAS Number 11138-66-2 LU₃₀ (Rat/Oral) >5000 mg/kg

LCso (Species/Ruste)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

⊠ Skin

Eye Contact

Inhalation

⊠ lagestion

Effects of acute exposure: Dry powder may cause irritation of skin. Prolonged exposure may cause drying or chapping of the akin.

Effects of chronic exposure: Not applicable

Exposure limits: Not established

Irritancy of product: Excessive inhalation of dust impedes respiration due to hygroscopic properties.

Sensitization to product: Not applicable

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available

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KELZAN XCD

SECTION IV: FIRST AID MEASURES

Skin contact: Flush with plenty of water. Remove contaminated clothing.

Eye contact: Flush with plenty of water. If irritation develops, call a physician. Remove contact lenses. Remove contaminated clothing.

Inhalation: None anticipated. Remove to fresh air. Call a physician.

Ingestion: Essentially non-toxic. Contact a physician or poison control center for advice.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Light beige powder, slight odour.

Odour threshold: Not available

Specific gravity: Not available

Vapor pressure (mmHG): Not available

Vapor density (Air-1): Not available

Evaporation rate: Not available

Bolling point (°C): Not available

Freeze/Melcing point ("C): Not available

pH: Approximately neutral

Co-efficient of water/oil distribution: Not applicable

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PACE 64/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



KELZAN XCD

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Dry chemical, alcohol foam, water fog. and CO2.

Flash point: Not applicable

Upper Cammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-legition temperature: Not applicable

Razardous combustion products: Carbon dioxide, carbon monoxide

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong exidizing agents,

Conditions of reactivity: Combustible dust in the finely divided and suspended state.

Hazardous decomposition products: Carbon dioxide, carbon monoxide from thermal decomposition

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7 OF #

PACE 65181 * RCVD AT 9/1/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



KELZAN XCD

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved dust mask.

Specific engineering controls: 10 changes per hour suggested.

Procedures for leak/spills: Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes very slippery when wat.

Waste disposal: Handle as non-hazardous material

Handling procedures and equipment: Product becomes very suppory when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Storage requirements: Product becomes very slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Special shipping terormetion: Not applicable

SECTION IX: PREPARATION

Date updated: April 1, 2005

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon texts and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. assume any liability ensing out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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MATERIAL SAFETY DATA SHEET

#1700, 407 2ND STREET 6.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Tressportation Emergency 1-888-243-9771 - ChExSS - Chemical Exposure

STAFLO REGULAR

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: STAFLO REGULAR Chemical Family: Sodium Carboxymethylcellulose WHMIS Classification: Not applicable Workplace Hezard: Treat as nuitance dust

Product Use: Fluid loss reducer Tut; Classification; Not applicable Packaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients None

CAS Number

LDn (Species/Route)

LCs (Species/Route)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🖾 Skin

Eye Contact

🔯 inbalation

⊠ lagestion

Effects of acute exposure: May cause mechanical irritation to the eyes.. High dust concentrations may cause coughing and

Effects of chronic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product: Low

Sensitization to product: Not applicable

Carcinogenicity: No information available

Reproductive toxicity: No information available

Teratogenicity. No information available

Mutagenicity: No information available

Name of toxicological synergistic products: No information available

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STAFLO REGULAR

SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing. Seck medical attention if any discomfort continues.

Eye contact: Flush with gently flowing warm water until particles are removed. If irritation persists obtain medical attention.

Inhalation: Move to fresh ear. Apply oxygen or artificial respiration as required. If breathing difficulties or distress continues obtain medical attention.

Ingestion: If victim if fully conscious, rinse mouth then give i to 2 glasses of water. If symptoms develop obtain medical attention. Never give anything by mouth to an unconscious or convulsing victim.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Free flowing white powder; no appreciable odour

Odour threshold: Not applicable Specific gravity: Not available

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

soiling point (°C): Nut applicable

Freeze/Melting point (°C): Not applicable

pH: 6.0-8.5 (1% sal'n)

Co-efficient of water/oil distribution: Soluble in water.

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STAFLO REGULAR

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Water spray, floam, dry chemical or CO2.

Flash point: Not applicable

Upper Hammable limit: Not applicable
Lower Hammable timit: Not applicable
Auto-ignition temperature: Not applicable

Hazardous combustion products; Oxides of carbon

Explosion data-sensitivity to mechanical impact; Not applicable

Explosion data-sensitivity to static discharge: Not applicable

Unusual Fire and explosion hazards: Dust/air mixtures may ignite violently upon exposure to spuries or sources of ignition.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable. Hazardous polymerization will not occur.

Product incompatible with: No listed compatible materials

Conditions of reactivity: None known

Hazardous decomposition products: Oxides of carbon and hydrocarbons upon combustion.

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PACE 69/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



STAFLO REGULAR

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest approved duct mask; nuisance dust. Use approved respirator with dust cartridges if level of airborne dust exceeds TLV. Suggest goggles or safety glasses with side-shields; nuisance dust. Ensure eyewash station and emergency shower available when handling chemicals.

Specific engineering controls: Use in well-ventilated area. Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of antonne dust below TLV.

Procedures for leak/spills: Use appropriate safety equipment. Eliminate lightion sources. Vacuum or sweep-up if dry. If wet, pick up with dry material such as send or dirt. Avoid flushing with water as material becomes slippery. Non-sparking mols should be used as dust/air mixtures may explode violently. Collect uncontaminated material in approved contamers for disposal.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. Landfill is suggested. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty packaging must be disposed of, or recycled, in accordance with local regulations.

Handling procedures and equipment: Handle in well ventilated areas. Avoid dust generation. Practice good hygiene

Storage requirements: Store to original container. Store in cool, dry area (hygroscopic).

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: June 26, 2006

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. assume any liability arising out of use by others. Not us the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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MATERIAL SAFETY DATA SHEET

#1700, 407 2ND STREET S.W., CALGARY, ALBERTA T2P 2Y3
TELEPHONE: (403) 269-2242 FAX: (403) 269-2251
1-613-996-0066 - CANUTEC - Transportation Emergency
1-888-243-9771 - ChexSS - Chemical Exposure

STAFLO REGULAR

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: STAFLO REGULAR
Chemical Family: Sodium Carboxymothylcelfulose
WHMTS Classification: Not applicable
Workplace Hazard: Treat as nuisance dust

Product Use: Fluid loss reducer TDG Classification: Not applicable Packaging Group; Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients

Percent

CAS Number

LD₆₄ (Species/Route)

LC₅₀ (Species/Route)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

Skin

Eye Contact

noiseladul 🖾

Ingestion

Effects of acute exposure: May cause mechanical irritation to the eyes.. High dust concentrations may cause coughing and sneezing

Effects of chronic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product: Low

Sensitization to pruduct: Not applicable

Carcinogenicity: No information available

Reproductive taxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synergistic products: No information available

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PACE 71/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



STAFLO REGULAR

SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if any discomfort continues.

Eye contact: Flush with gently flowing warm water until particles are removed. If irritation persists obtain medical aftention.

Inhalation: Move to fresh air. Apply oxygen or artificial respiration 25 required. If breathing difficulties or distress continues obtain medical attention.

Ingestion: If victim if fully conscious, rinse mouth then give 1 to 2 glasses of water. If symptoms develop obtain medical attention. Never give anything by mouth m an unconscious or convulsing victim.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Free flowing white powder, no appreciable odour

Odour threshold: Not applicable

Specific gravity: Not available

Vapor pressure (mmHG): Not applicable

Vapor density (Air-1): Not applicable

Evaporation rate: Not applicable

Bolling point (°C): Not applicable

Freeze/Melting point (°C): Not applicable

pH: 6.0-8.5 (1% sol'n)

Co-efficient of water/oil distribution: Soluble in water.

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STAFLO REGULAR

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Water spray, form, dry chemical or CO_2 .

Flash point: Not applicable

Upper flammable limit; Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Oxides of earbon

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

Unusual Fire and explusion hazards: Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable, Hazardous polymerization will not occur.

Product incompatible with: No listed compatible materials

Conditions of reactivity: None known

Hazardous decomposition products: Oxides of earbon and hydrocarbons upon combustion.

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PACE 73/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



STAFLO REGULAR

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest approved dust mask; nuisance dust. Use approved respirator with dust embidges if level of airborne dust exceeds TLV. Suggest goggles or safety glasses with side-shields; nuisance dust. Ensure cyewash station and emergency shower available when hundling chemicals.

Specific engineering controls: Use in well-ventilated area. Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of authorne dust below TLV.

Procedures for leak/apills: Use appropriate safety equipment. Eliminate ignition sources. Vacuum or sweep-up if dry. If wet, pick up with dry material such as sand or dut. Avoid flushing with water as material becomes slippery. Non-sparking tools should be used as dust/air mixtures may explode violently. Collect uncontaminated material in approved containers for disposal.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. Landfill is suggested. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty packaging must be disposed of, or recycled, in accordance with local regulations.

Handling procedures and equipment: Handle in well ventilated areas. Avoid dust generation. Practice good hygiene

Storage requirements: Store in original container. Store in cool, dry aren (hygroscopie).

Special shipping information: Not applicable

SECTION IX: PREPARATION

. Date updated; June 26, 2006

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarance, expressed or implied, is made by Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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MATERIAL SAFETY DATA SHEET

#1700, 407 2^{MD} STREET S.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251

> I-613-996-6666 - CANUTEC - Transportation Emergency 1-888-243-9771 - ChExSS - Chemical Exposure

CALCIUM CARBONATE "325"

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: CALCIUM CARBONATE "325" Chemical Family: Alkaline Earth WHMIS Classification: Not applicable Workplace Hazard: Not applicable

Product Use: Bridging agent
TDG Classification: Not applicable
Packaging Gruup: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients

Calcium Carbonate (Lunestone) Crystalline Silice, Quartz Percent 60-100 CAS Number 471-34-1 14808-60-7

LD_{3e} (Rat/Oral) 6450 mg/kg

LCso (Species/Route)

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

⊠ Skin

Eye Contact

Inhalation

M Ingestion

Effects of acute exposures Irritant

Effects of chronic exposure: No signs or symptoms of chronic exposure have been reported.

Exposure limits: Not applicable

Irritance of product: May cause skin and eye irritation. If inhaled in form of dust, may cause reparatory tract, irritation/inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitie. Cause gastro-intestinal irritation. If ingested in large quantities may cause nausea, constipation and hypercalcaemia, hemorrhage.

Sensitization to product: Not applicable

Carcinogenicity: May contain crystalline silice which is carcindenic to humans.

Reproductive toxicity: Not applicable

Teratogenicity: Not applicable

Mutagenicity: Not applicable

Name of toxicological synergistic products: Not applicable

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PACE 75/81 * RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



CALCIUM CARBONATE "325"

SECTION IV: FIRST AID MEASURES

Skin contact: Carefully and gently brush the contaminated body surfaces in order to remove all traces of Calcium Carbonate. Use a brush, cloth or gloves. Remove all Calcium Carbonate-contaminated clothing. Rinse contaminated area with lukewarm water for 15 to 20 minutes. If irritation occurs or persists seek medical attention.

Eye contact: Immediately rinse contaminated sys(s) with gently running lukewarm water for 15 to 20 minutes. If irritation occurs or persists seek medical attention.

Inhalation: Move sources of dust or move victim to fresh air. Obtain medical attention immediately. If victim does not breathe, give artificial respiration. Contact a physician immediately.

Ingestion: If victim is unconscious, wash our mouth with water. Here conscious person drink several glasses of water to dilute. Induce vorniting. Contact a physician immediately. Never give anything by mouth to an unconscious or convulsing person.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Odourless - white to gray solid or powder

Odour threshold: Not applicable

Specific gravity: 2.65 - 2.75

Vapor pressure (mmHG): Not applicable

Vapor density (Air-1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Preeze/Melting point (°C): Not applicable

pH: 9.4

Co-efficient of water/oil distribution: Not applicable

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PACE 76/81 * RCVD AT 9/1/1/2007 2:48:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



CALCIUM CARBONATE "325"

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Calcium Carbonate does not burn. Use extinguishing media appropriate to surrounding fire conditions.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower fiammable timit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: None

Explosion data-sensitivity to mechanical impact. Not applicable

Explosion data-sensitivity to static discharge: Not applicable.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product incompatible with: Fluorine, magnessum, aluminum, silicon, hydrogen, mercury, aluminum sulfate, ammonium sulfate, acids (violent reaction with generating heat and possible explosion in confined area).

Conditions of reactivity; Calcium Carbonate is a very stable chemical substance. Decomposition does not occur at normal temperatures (inferior to 600 °C). Reacts chemically with strong acids to form calcium based compounds and to liberate carbon diuxide.

Hazardous decompositium products: Decomposes et 870 °C to form carbon dioxide and calcium oxide

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CALCIUM CARBONATE "325"

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH approved filtering anti-dust mask. Gauntiets Cuff styleTight fitting goggles with side shirtles. Wear clean, dry gloves, full length parts over boots, long sleeved shirt buttaned to the nack, head protection and approved eye protection selected for the working conditions.

Specific engineering controls: Enclose dust sources; use exhaust ventilation (dust collector) or other engineering controls at handling points to keep sirborne levels below recommended exposure limits.

Procedures for leak/spills: Limit access to trained personnel. Sweep up and place in container. Use industrial vacuums for large spills. Avoid raising dust. Ventilate area

Waste disposal; Transport to disposal erce or bury. Federal, Provincial and Local regulations

Handling procedures and equipment: Avoid skin and eye contact. Minimize dust generation. Wear protective goggles and incusors of insulficient ventilation, use anti-dust mask.

Storage requirements: An eye wash station should be readily available where this is used. When storing, keep tightly closed containers in a cool; dry and well-ventilated area, away from acids.

Special shipping information: Not applicable,

SECTION IX: PREPARATION

Date updated: March 8, 2005

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described needs. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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MATERIAL SAFETY DATA SHEET

#1/00, 407 2ND STREET S.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Transpursation Emergency 1-888-243-9771 - ChExSS - Chemical Exposure

Q'BREAK

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: O'BREAK Chemical Family: Enzymes and sold blend WHMIS Classification: D2A,D2B Workplace Hazard: Respiratory tract sensitizer, Skin & eye imitant.

Product Use: Breaker to separate water in Polyter TDG Classification: Not Regulated Packaging Group: Not applicable PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients Citric Acid Amylase

Percent 30-60% 1-5%

CAS Number 77-92-9 9000-90-2

LD. (Species/Route) 3000 mg/kg Not determined

LC₅₀ (Species/Route) Not determined Not determined

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry!

Skin

Eye Contact

Inhalation

M Ingestion

Effects of acute exposure: Dust may irritate the nose and throat. Inhalation may cause irritation of the mucous membranes. May cause gastrointestinal irritation and dental cresion if ingested. May cause irritation to eyes and skin.

Effects of chronic exposure: Repeated inhalation of enzyme aerosole may cause respiratory tract sensitization in susceptible individuals. Symptome include shortness of breath, skin rashes and irritation to eyes.

Exposure limits: Not determined

Irritancy of product: Skin and cyc tritam

Sensitization to product: Respiratory tract sensitizer

Carcinogenicity: Not determined

Reproductive toxicity: Not determined

Teratogenicity: Not determined

Mutagenicity: Not determined

Name of toxicological synergistic products: Not determined

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LUP

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Q'BREAK

SECTION IV: FIRST AID MEASURES

Skin contact: Flush skin with planty of water. Remove contaminated clothing and shoes. Wash clothing before reuse.

Eye contact: Immediately flush with running water for 15 minutes. Hold cyclids apart to ensure maing of the catite surface of the eye and lids. Get immediate medical attention.

Inhalation: Remove to fresh air.

ingestion: Do not induce vomiting. If conscious, give lots of water. Get immediate medical attention.

SECTION V: PHYSICAL DATA

Physical state: Powder

Appearance and odour: White grandular, odourless

Odour threshold: Not applicable

Specific gravity (°C): 1.54

Vapor pressure (mmHG); Not determined

Vapor density (Air=1): Not determined

Evaporation rate: Not determined

Bulling point ("C): Not applicable

Freeze/Melting puint (°C): Not determined

pH (%): 2.6 @ 10%, 2.4 @ 20% (wt/v)

Solubility in Water: 1.62 g / 100 ml

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Q'BREAK

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Water, dry chemical, foam.

Flash point: Not applicable

Upper flammable limit; Not applicable

Lower flammable that: Not applicable

Anto-ignition temperature: Nut applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explorion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product tocompatible with: Alkali metals, organic acids, oxides of sulphur and strong bases.

Conditions of reactivity: Not known

Hazardous decomposition products: COx on combustion.

Hazardous polymerization: Will not occur

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3 QP4

PACE 81/81 * RCVD AT 9/11/2007 2:48:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06



Q'BREAK

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH approved dust mask if ventilation is inadequate. Chemical resistant protective gloves. Safety glasses with side shields.

Specific engineering controls: General mechanical ventilation.

Procedures for leak/spills: Wear protective equipment. Por small spills, sweep up and dispose of in approved waste containers. For large spills, shovel into approved waste containers. Keep out of sewers, storm drains, surface waters and soil.

Waste dispusal: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

Handling procedures and equipment: Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

Storage requirements: Store in a cool, dry, well-ventilated place away from mecompatible materials. Keep bags or liber drams dry at all times.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: January 2007

Prepared by: Product Safety Cummittee

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